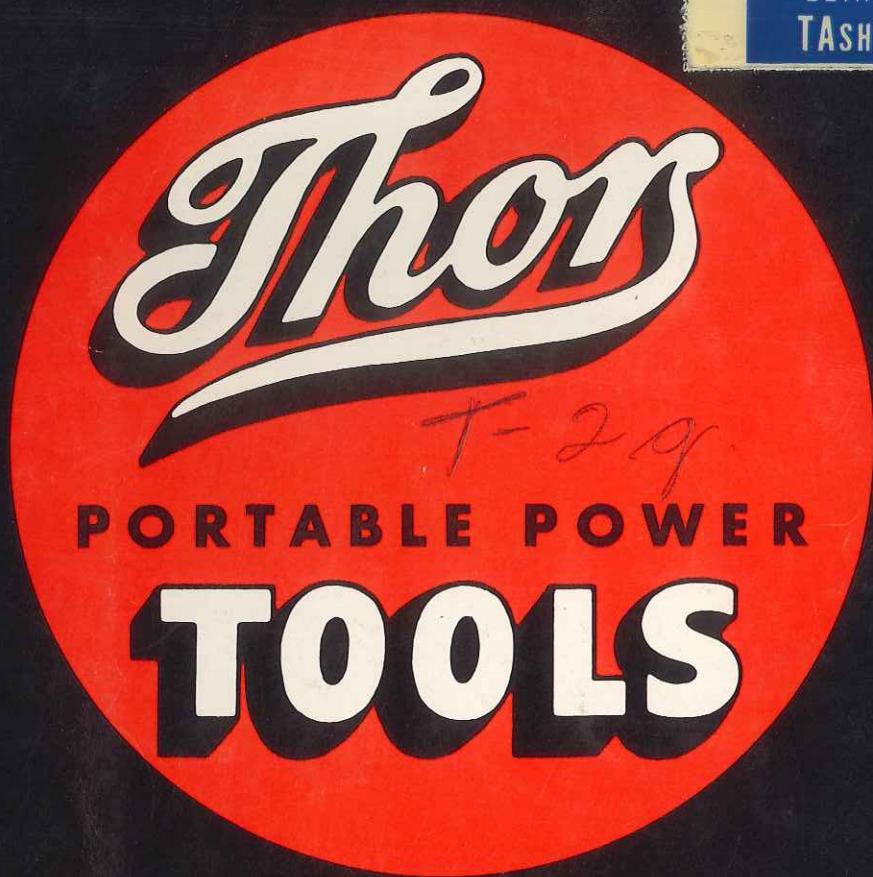


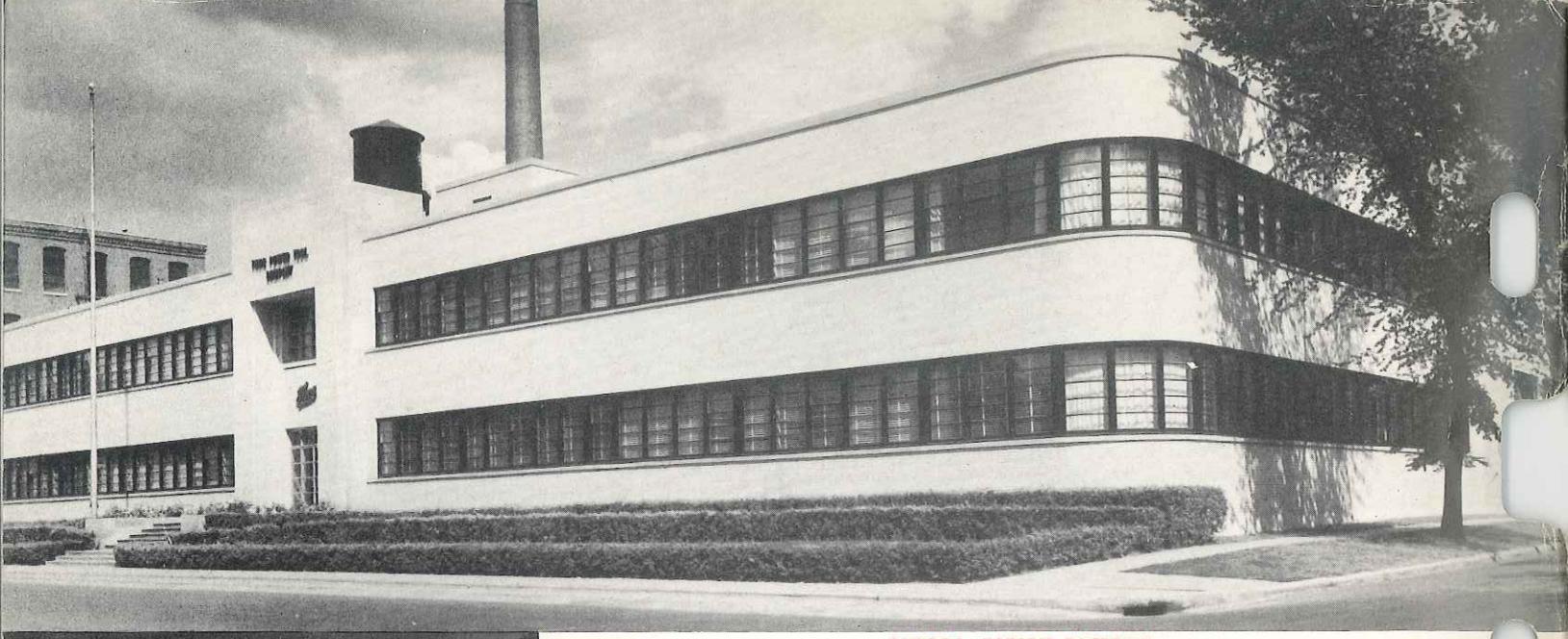
No. 58 Catalog

C. L. GRANDSEN & Co.
1214 18TH ST. - AT HOWARD
DETROIT 16, MICHIGAN
TASHMOO 5-5090

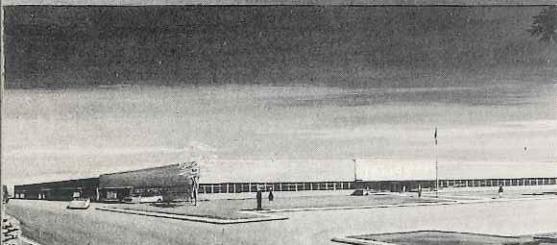


INDUSTRIAL CATALOG

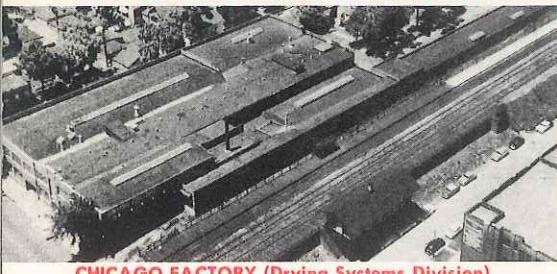
ELECTRIC AND AIR TOOLS SOLD EXCLUSIVELY THROUGH
INDUSTRIAL DISTRIBUTORS



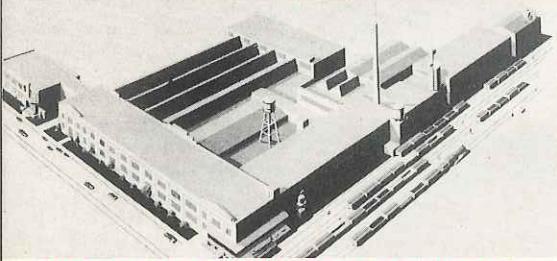
AURORA, ILLINOIS FACTORY



CHICAGO FACTORY (SpeedWay Mfg. Division)



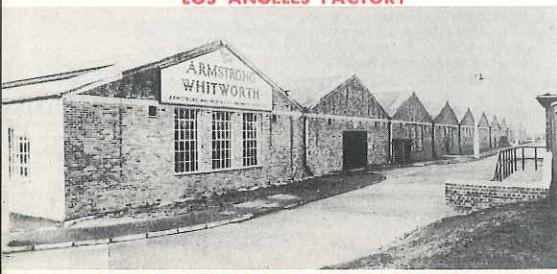
CHICAGO FACTORY (Drying Systems Division)



CINCINNATI FACTORY (Cincinnati Rubber Mfg. Co.)



LOS ANGELES FACTORY



ENGLISH FACTORY (Tynemouth, England)

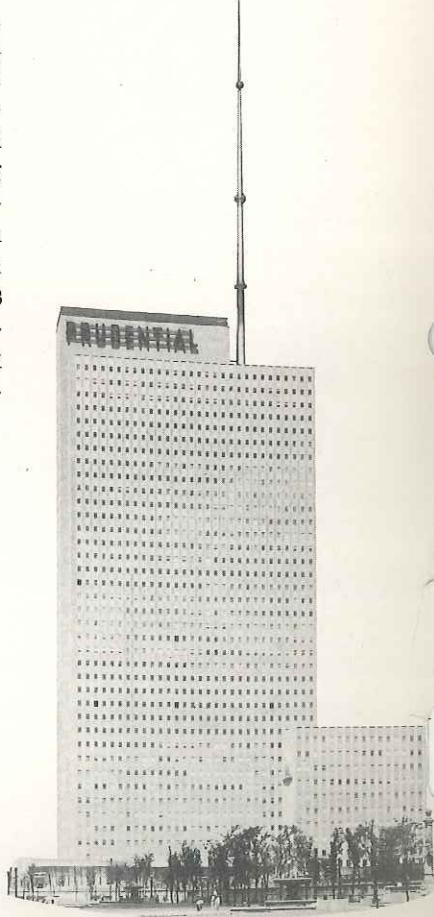
For more than sixty-five years the Thor Power Tool Company has been designing and engineering tools bearing the Thor trademark for use in industry throughout the civilized countries of the world. Since the inception of this company in 1893, each year has seen Thor engineers creating and developing new models, many of which have taken their places among the outstanding contributions of all times to the craft of tool making; a tribute to the inventive and creative genius of Thor engineers.

Today Thor engineers are still pioneering, still developing and perfecting tools to speed up industrial production; designing and building tools that are meeting every demand of modern industry; that are given acceptance in every country of the world. In these pages are illustrated tools worthy of your every consideration; tools bearing the trademark Thor, symbolic of power, endurance and efficiency.

EXECUTIVE OFFICES

PRUDENTIAL BUILDING

CHICAGO, ILLINOIS



Thor SilverLine Tools are recommended generally for the hardest, heaviest industrial service—wherever durability and reserve power are of prime consideration in the purchase and use of electric tools.



MOTORS

Universal Motors (for direct or alternating current of 60 cycles or less) are standard on all electric tools shown in this catalog with the following exceptions:

Bench Grinders and Valve Refacer grinding head motors are furnished for operation on alternating current only.

VOLTAGES

All electric tools shown in this catalog are furnished standard for operation on 115 volt (110 to 120 volt) current; and are also available in 220 volts at no extra charge. Other popular voltages available on request.

Reversible tools—Tools with reverse switches available in 115 volts, are also available in 127 and 150 volts on special order. Check availability of reversible tools in other voltages.

GROUNDING

To conform to National Electrical Code requirements for grounding electric tools, Thor tools with three-conductor cables are now equipped with *three prong plugs* for use in matching 3-prong grounding receptacles.

As a convenience to tool users not yet equipped with 3-prong receptacles, each tool is shipped with an *adaptor* (three-prong to two-prong) which will fit into any standard two-prong household-type receptacle. When this adaptor is used, the tools may be grounded by means of a green-colored grounding wire projecting from the side of the adaptor.

It is recommended that electric tools be grounded at all times during operation.



A SYMBOL OF POWER AND ENDURANCE
in Norse mythology, Thor, the God of Thunder, has furnished a fitting trade name for the world's most powerful electric and air tools.

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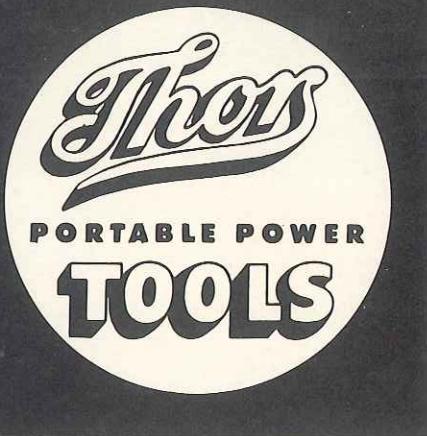
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FAMOUS THOR *Silver Line* CONSTRUCTION FEATURES

HEAVY DUTY BALL BEARINGS throughout, grease-sealed for minimum maintenance under continuous assembly line and other heavy duty usage.

GEARS are of high grade alloy steel, scientifically heat treated for strength and long wear.

BRIDGED SUPPORT for upper armature bearing maintains permanent alignment for greater accuracy and long wear.

DYNAMICALLY and STATICALLY BALANCED MOTORS develop power to spare over rated capacity for smooth performance.

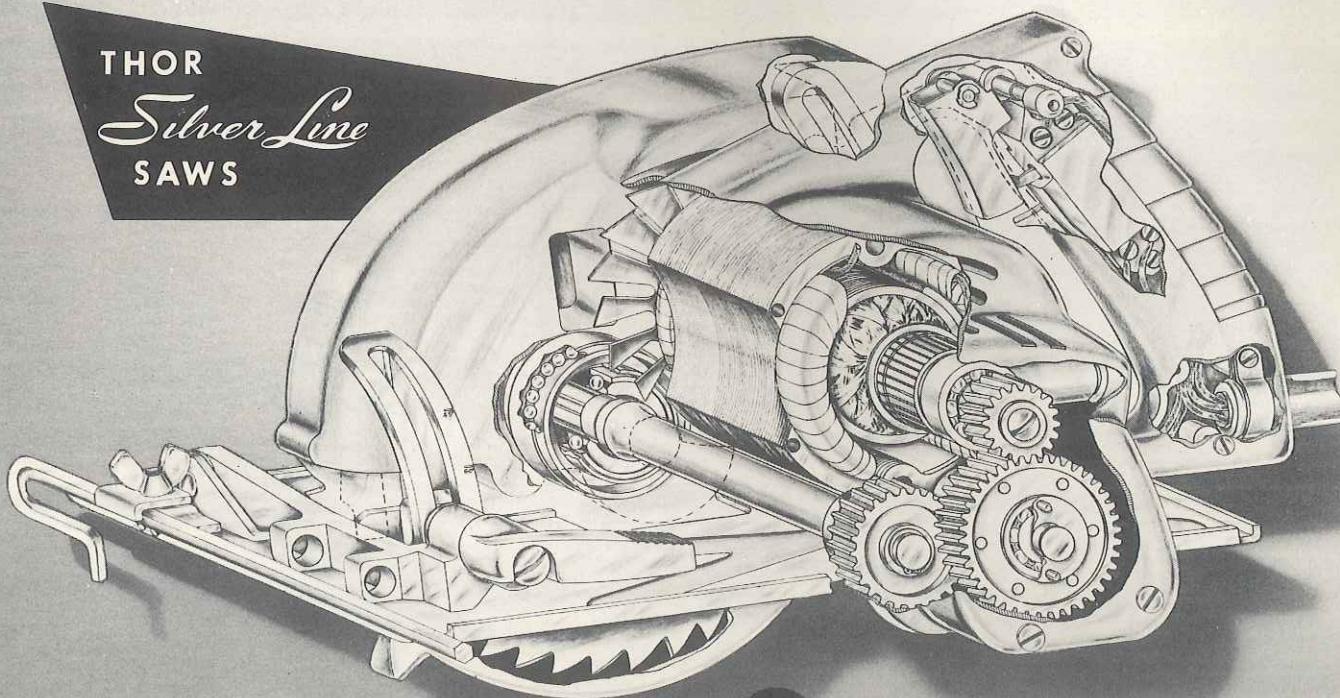
OVER CAPACITY SEALED SWITCHES with momentary trigger and locking pin.

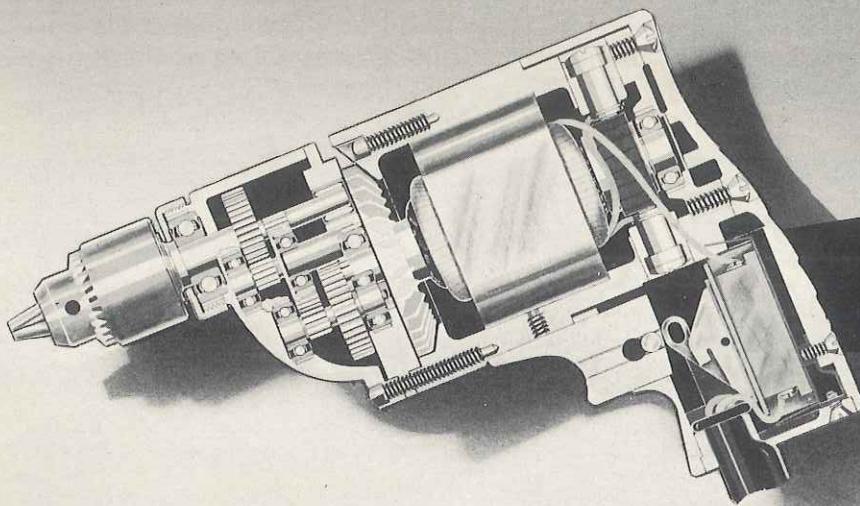
EASILY REMOVED HANDLES provide quick access for inspection and service of brushes, commutator and switch.

LARGE VENTILATING SLOTS cast aluminum baffle and centrifugal fan assure cool running motor, cool handling tool, exceptionally quiet operation.

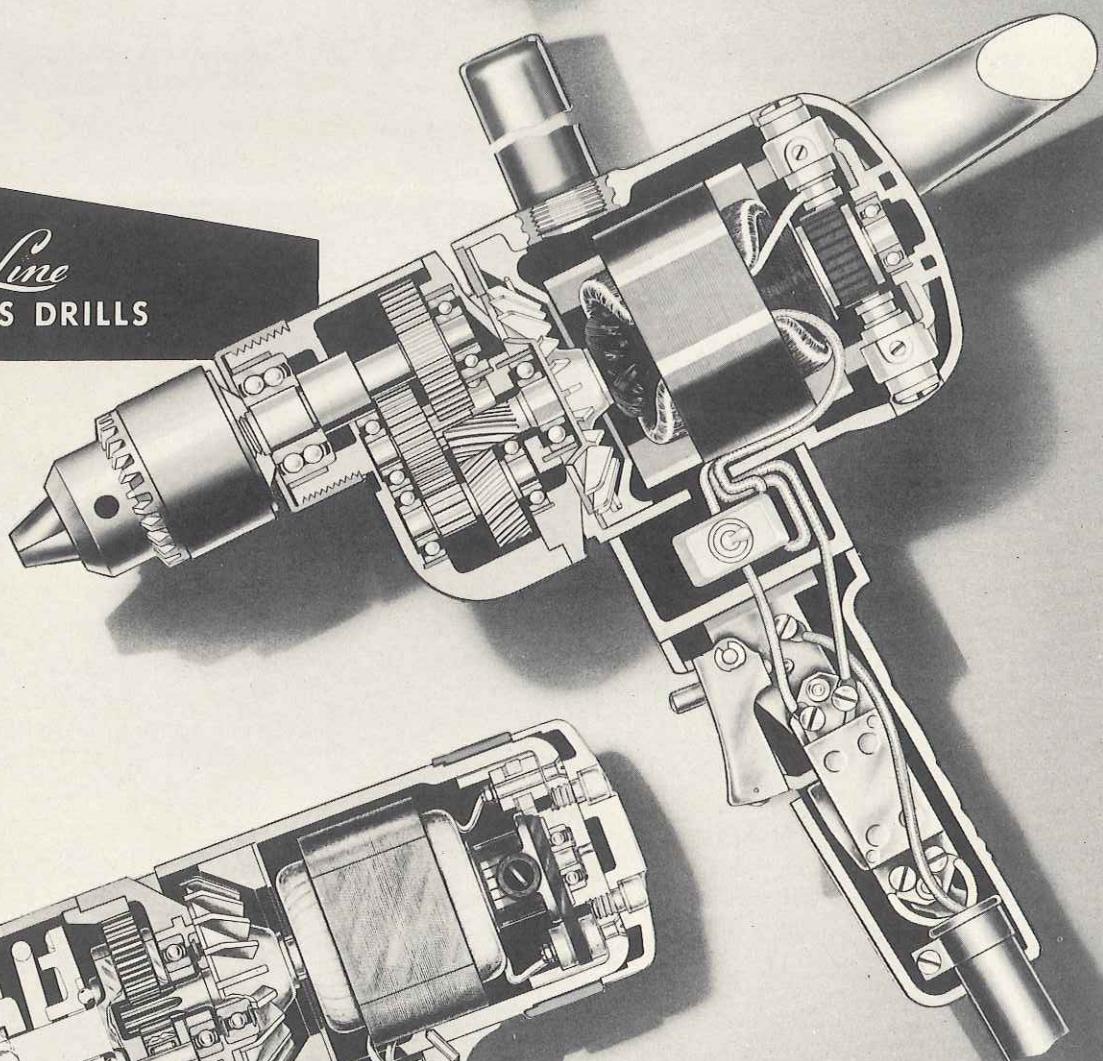
DIE CAST ALUMINUM HOUSINGS for minimum weight without sacrifice of sturdiness or durability. Beautifully polished finish wipes clean in an instant.

THOR
Silver Line
SAWS

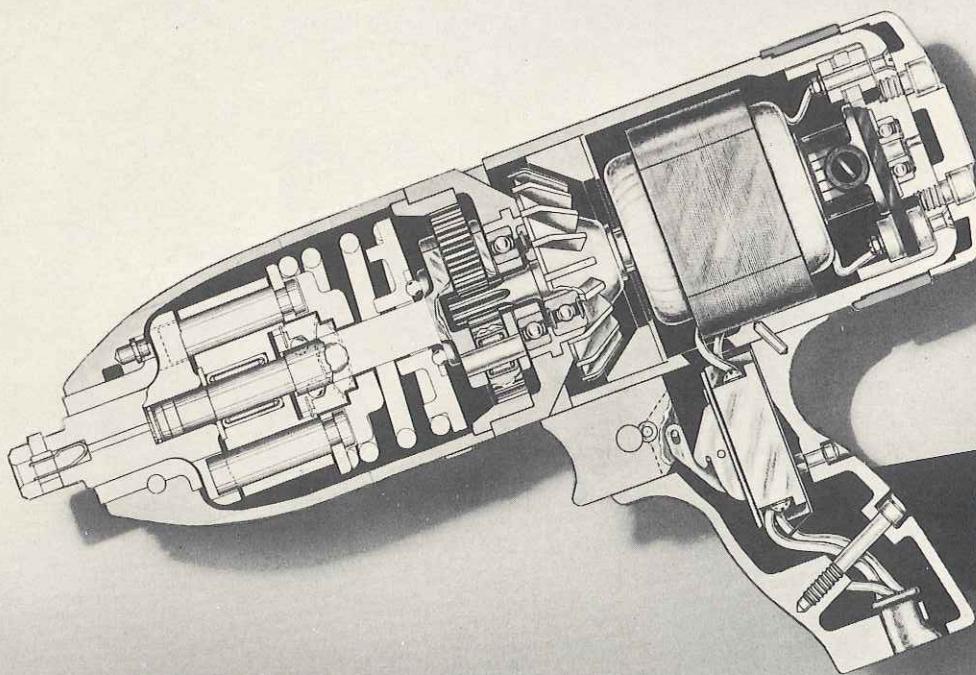




THOR *Silver Line*
ED SERIES DRILLS



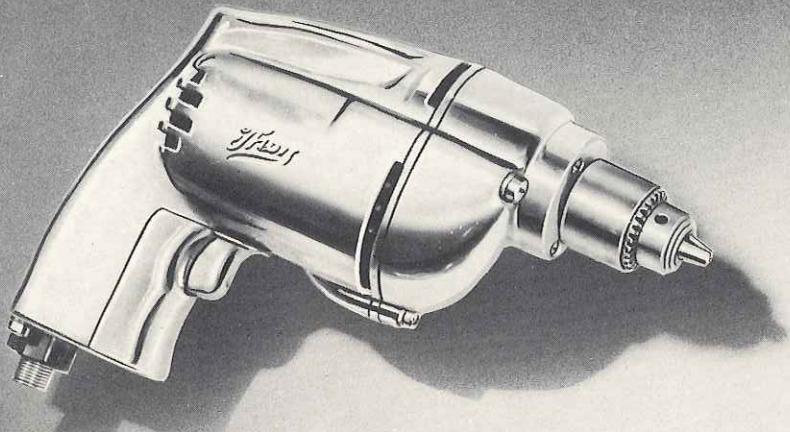
THOR
Silver Line
EJ SERIES DRILLS



THOR *Silver Line*
IMPACT WRENCHES

**1/4" Capacity
DRILLS**

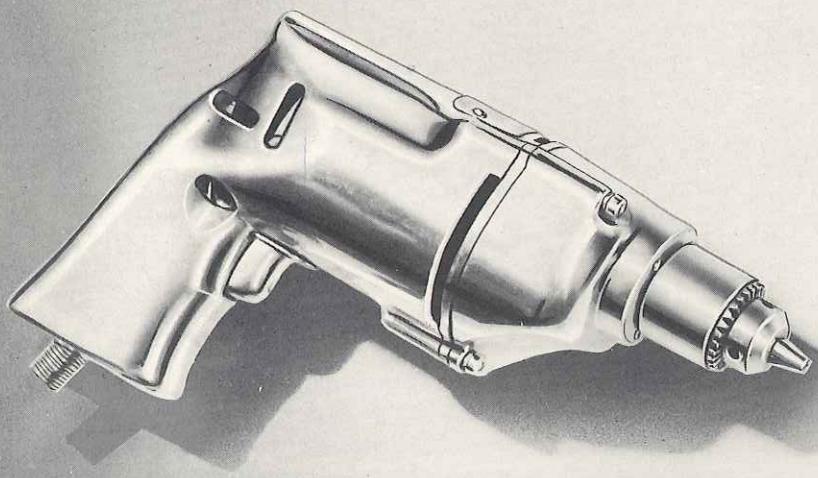
COPPERLINE electric drills. More than satisfactory for normal use where the extreme stamina of the production line drill is not required. 16CL is designed for average $\frac{1}{4}$ " drilling applications in various trades and crafts. H16CL delivers extra power for heavier duty applications.



no. 16CL CopperLine $\frac{1}{4}$ " DRILL

capacity	.....	$\frac{1}{4}$ "
speed	.....	2000 R.P.M.
bearings	.....	anti-friction—heavy duty radial and end thrust ball bearing on spindle
weight	.....	3 lbs.
shipping weight	.....	5 lbs.
overall length	.....	$8\frac{1}{2}$ "

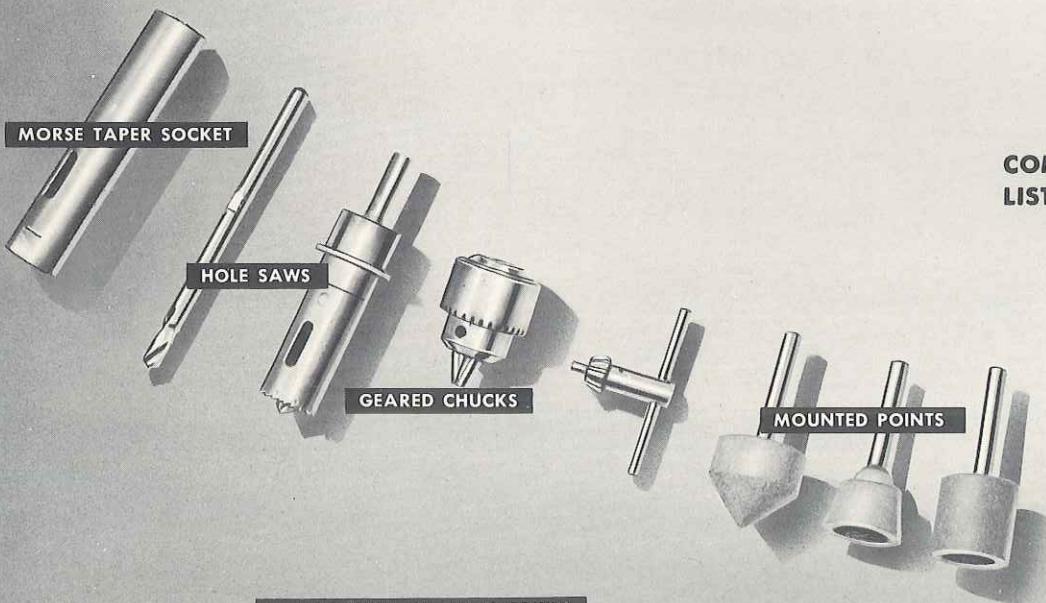
Equipped with $\frac{1}{4}$ " 3-jaw geared chuck and key; pistol grip handle with momentary trigger switch and locking pin; six feet of 3-conductor cable and plug.



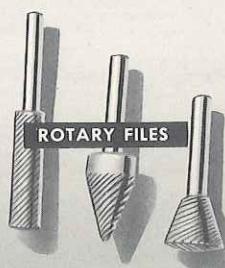
no. H16CL CopperLine $\frac{1}{4}$ " DRILL

capacity	.....	$\frac{1}{4}$ "
speed	.....	2000 R.P.M.
bearings	.....	ball anti-friction oilless
weight	.....	4 $\frac{1}{2}$ lbs.
shipping weight	.....	6 lbs.
overall length	.....	9"

Equipped with $\frac{1}{4}$ " 3-jaw geared chuck and key; pistol grip handle with momentary trigger switch and locking pin; ten feet of 3-conductor cable and plug.



**COMPLETE ACCESSORIES
LISTING . . . PAGE 49**



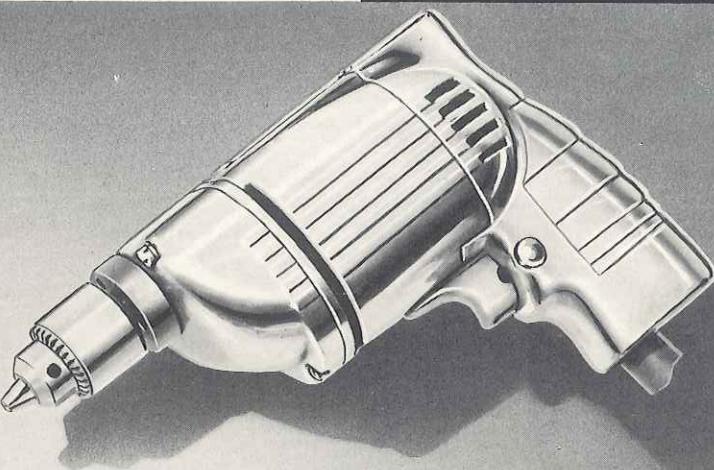
SILVERLINE. All-ball-bearing electric drills industrially rated for standard duty service. Smallest, lightest drills in the line. Angle model provides easy access to hard-to-reach places. Angle head is adjustable to four positions for 360° service. Straight models are offered in a complete range of speeds for all industrial applications.

1/4" Capacity

DRILLS

no. ED2 STANDARD DUTY 1/4" DRILL

capacity $\frac{1}{4}$ "
 speed 1800 R.P.M.
 bearings all heavy duty ball bearings throughout
 weight 3 lbs.
 shipping weight 4 lbs.
 overall length $7\frac{1}{16}$ "
 spindle offset $2\frac{1}{32}$ "



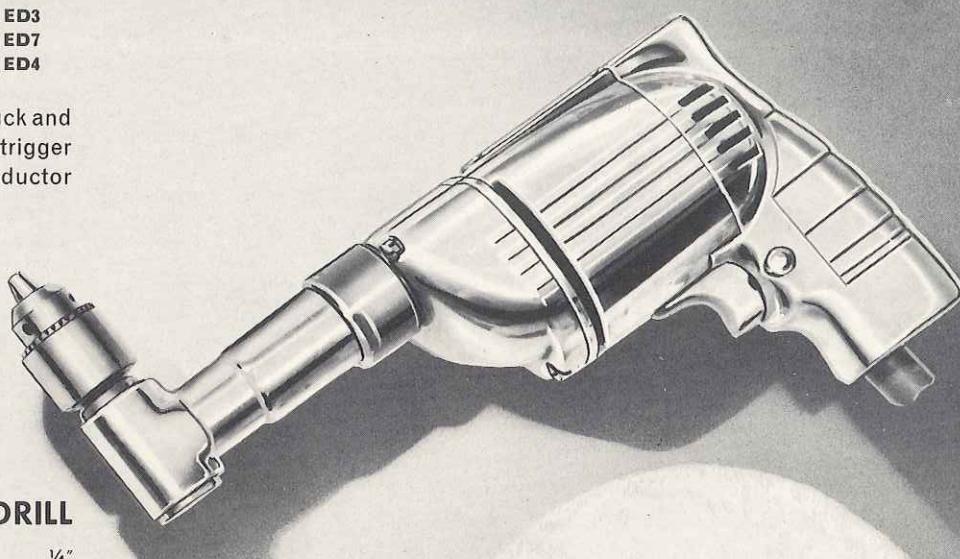
OPTIONAL SPEED MODELS

R.P.M.	Code No.
5000	ED5
3700	ED0
2500	ED1

SLOW SPEED MODELS

R.P.M.	Code No.
1100	ED3
800	ED7
550	ED4

All models equipped with 3-jaw geared chuck and key; pistol grip handle with momentary trigger switch and locking pin; seven feet of 3-conductor rubber cable and plug.



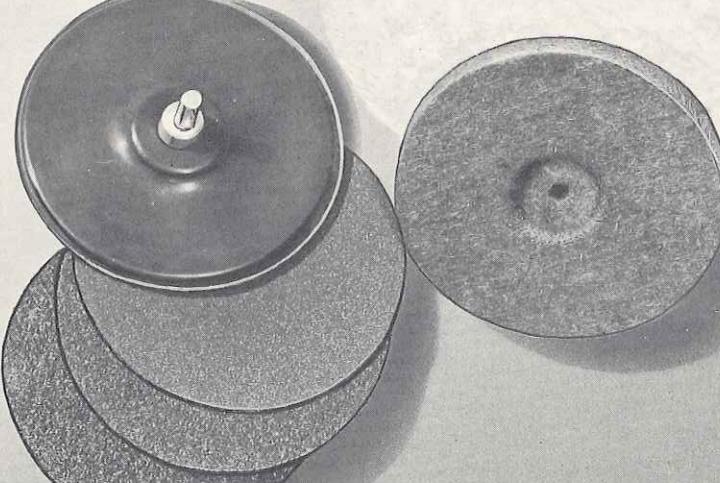
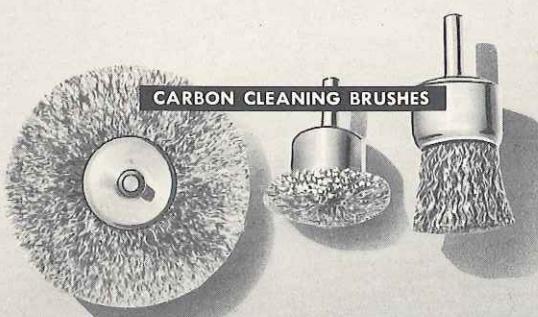
no. ED111 RIGHT ANGLE 1/4" DRILL

capacity $\frac{1}{4}$ "
 speed 2250 R.P.M.
 bearings all heavy duty ball bearings throughout
 weight $3\frac{7}{8}$ lbs.
 shipping weight 8 lbs.
 overall length 10"
 angle head length $3\frac{1}{16}$ " with standard 3-jaw chuck;
 $2\frac{5}{16}$ " with optional $\frac{1}{4}$ " collet

Equipped with 3-jaw geared chuck and key; pistol grip handle with momentary trigger switch and locking pin; seven feet of 3-conductor rubber cable and plug.

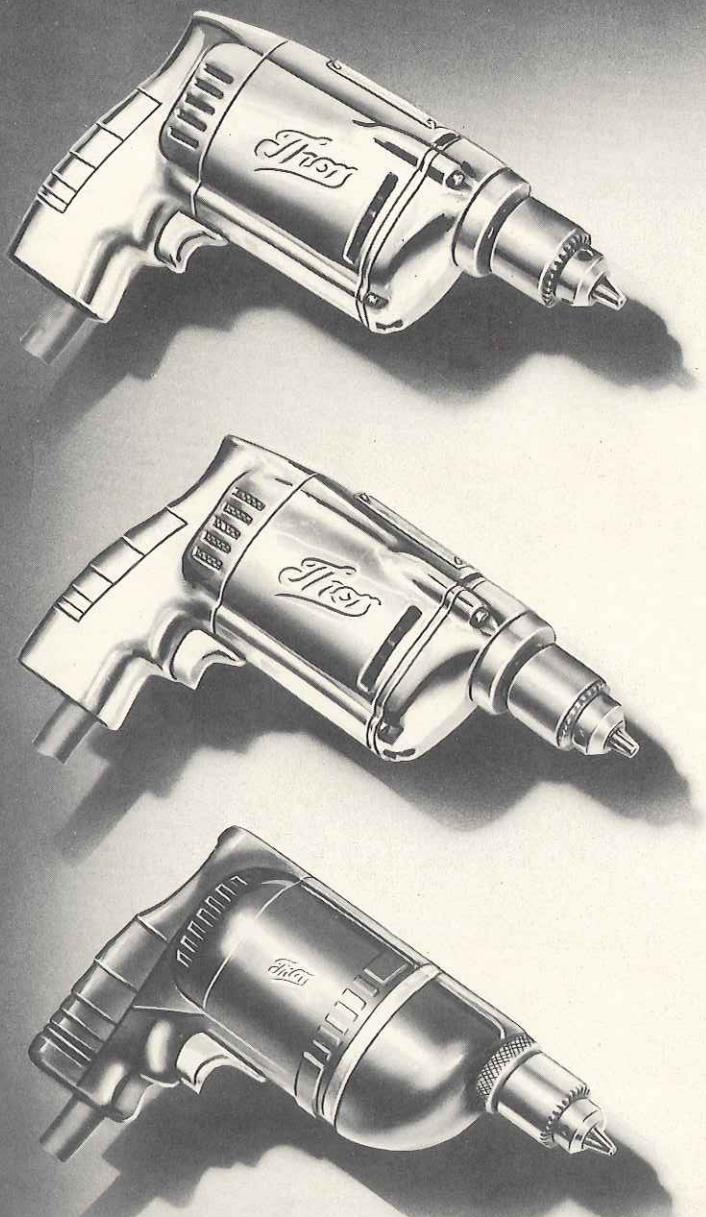
Optional equipment: $\frac{1}{4}$ " collet in place of $\frac{1}{4}$ " geared chuck.

SANDING-POLISHING ATTACHMENTS

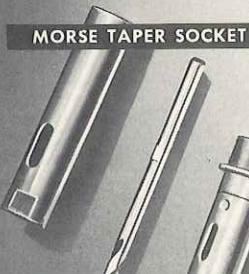


1/4" Capacity DRILLS

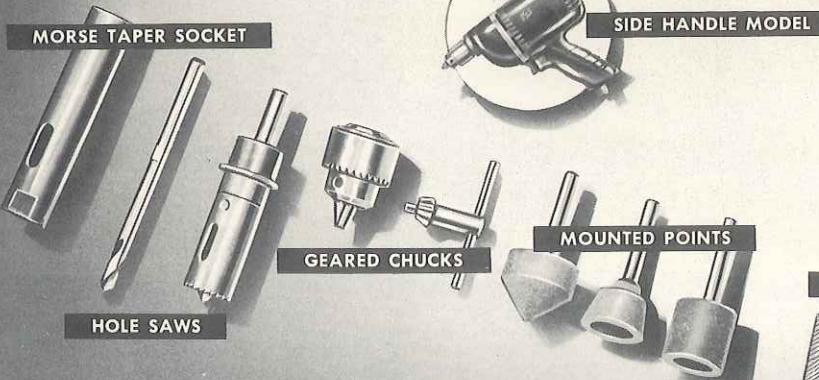
SILVERLINE. Heavy duty rated all-ball-bearing $\frac{1}{4}$ " drills for industrial service. Ruggedly built to stand up under hard day-in-and-day-out usage. New "FH" class provides speed-power combination for high production drilling. U14K models are housed in thick, chip-proof insulating plastic over inner steel frame. Wide range of speeds available for all types of applications.



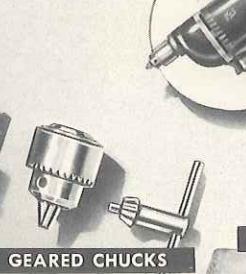
MORSE TAPER SOCKET



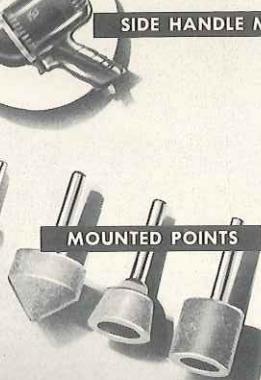
HOLE SAWS



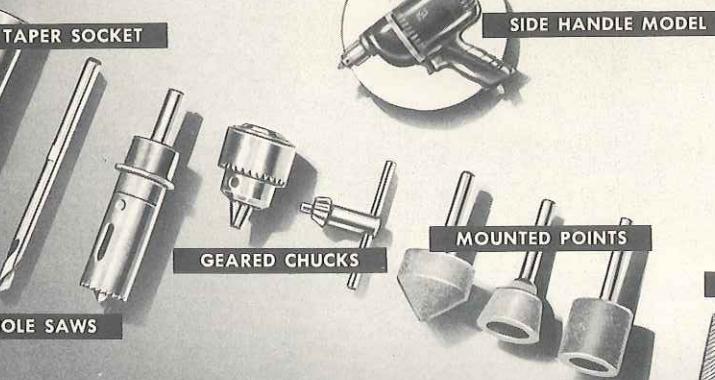
GEARED CHUCKS



MAINTAINED POINTS



VALVE GUIDE CLEANING BRUSH



no. U14F HEAVY DUTY $\frac{1}{4}$ " DRILL

capacity.....	$\frac{1}{4}$ "
speed.....	2500 R.P.M.
bearings.....	all heavy duty ball bearings throughout
weight.....	3 $\frac{1}{8}$ lbs.
shipping weight.....	5 lbs.
overall length.....	8 $\frac{1}{16}$ "
spindle offset.....	1 $\frac{5}{16}$ "

OPTIONAL SPEED MODELS

R.P.M.	Catalog No.
5000	U13F
3750	U12F

SLOW SPEED MODELS

R.P.M.	Catalog No.
1500	U17FD
1000	U18FD
750	U16FD
500	U22FD

no. U14FH HIGH SPEED $\frac{1}{4}$ " DRILL

capacity.....	$\frac{1}{4}$ "
speed.....	2900 R.P.M.
bearings.....	all heavy duty ball bearings throughout
weight.....	3 $\frac{1}{8}$ lbs.
shipping weight.....	5 lbs.
overall length.....	8 $\frac{1}{16}$ "
spindle offset.....	1 $\frac{5}{16}$ "

OPTIONAL SPEED MODELS

R.P.M.	Catalog No.
4500	U12FH
5700	U13FH

no. U14K HEAVY DUTY $\frac{1}{4}$ " DRILL

Lightweight "armored-plastic" case (same drill as U14F but weighs $\frac{1}{2}$ lbs. less).

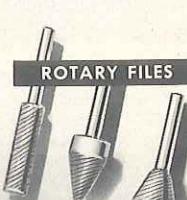
capacity.....	$\frac{1}{4}$ "
speed.....	2500 R.P.M.
bearings.....	all heavy duty ball bearings throughout
weight.....	3 $\frac{1}{4}$ lbs.
shipping weight.....	5 lbs.
overall length.....	8 $\frac{1}{16}$ "
spindle offset.....	$\frac{3}{4}$ "

OPTIONAL SPEED MODELS

R.P.M.	Catalog No.
3750	U12K
5000	U13K

All U14 models equipped with 3-jaw geared chuck and key; momentary trigger switch and locking pin; seven feet of 3-conductor cable and plug.

Optional all models at no extra cost, side handle in place of pistol grip.



ROTARY FILES



HOLE SPOTTER



CARBON CLEANING BRUSHES

SILVERLINE. Most powerful heavy duty $\frac{1}{4}$ " industrial drills in the line. Power rated in the same class with SilverLine $\frac{3}{8}$ " and $\frac{1}{2}$ " drills, geared and equipped for $\frac{1}{4}$ " service. Tremendous power rating for this class of work extends its useful service life far beyond any other class of $\frac{1}{4}$ " drill. All ball bearing, heavy duty construction throughout.

1/4"-3/8" Capacity

DRILLS

no. EJO HEAVY DUTY $\frac{1}{4}$ " DRILL

capacity.....	$\frac{1}{4}$ "
speed.....	2000 R.P.M.
bearings.....	all heavy duty ball bearings throughout
weight.....	$6\frac{1}{2}$ lbs.
shipping weight.....	$8\frac{1}{4}$ lbs.
overall length.....	$12\frac{1}{4}$ "
spindle offset.....	.1"

Equipped with 3-jaw geared chuck and key; momentary trigger switch and locking pin; seven feet of 3-conductor cable and plug. (Keyless chucks available at extra cost.)

Optional at no extra cost, side handle in place of grip handle.

no. EJOH $\frac{3}{8}$ " HEAVY DUTY WOOD DRILL

Same as above except speed is 8000 R.P.M.; overall length $12\frac{1}{8}$ ".

no. 20CL Copper Line $\frac{5}{16}$ " DRILL no. 24CL Copper Line $\frac{3}{8}$ " DRILL

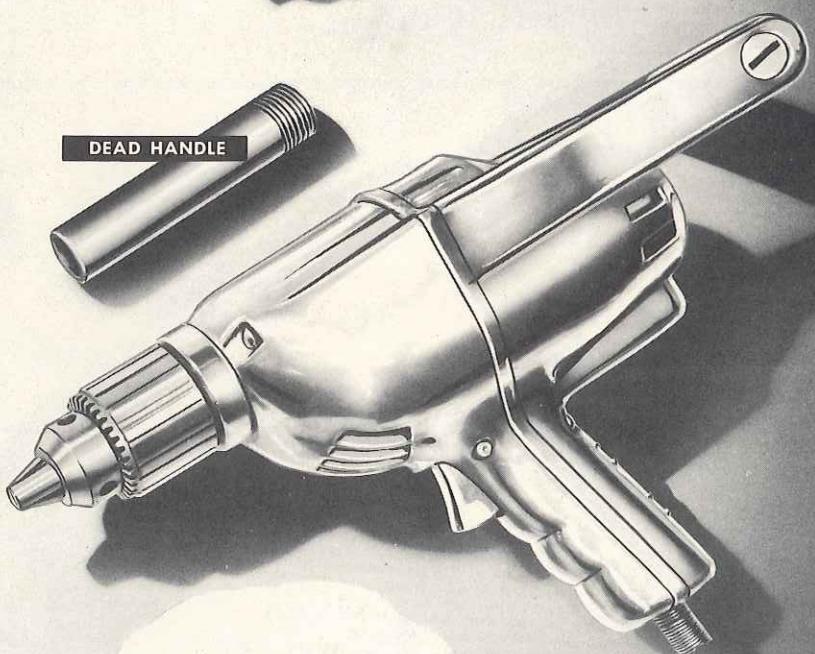
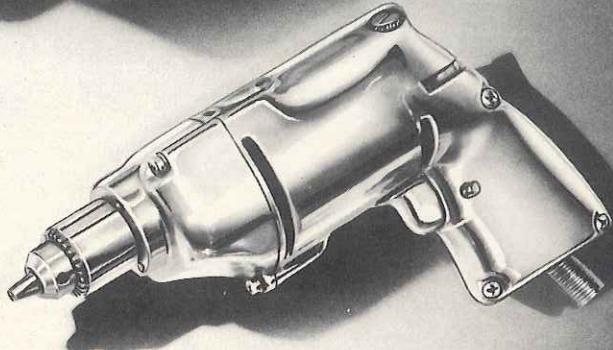
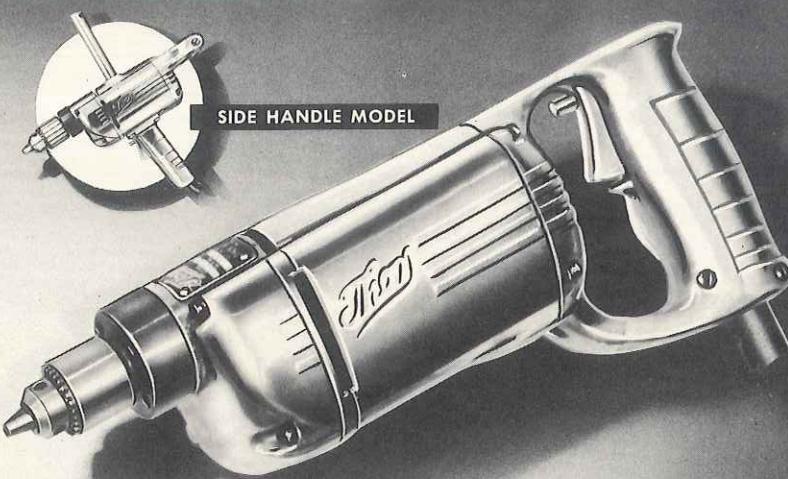
	no. 20CL	no. 24CL
capacity.....	$\frac{5}{16}$ "	$\frac{3}{8}$ "
speed.....	1500*	1000*
bearings.....	sealed anti-friction ball and needle bearings	
weight.....	$4\frac{1}{2}$ lbs.	$5\frac{1}{2}$ lbs.
shipping weight.....	6 lbs.	7 lbs.
overall length.....	$9\frac{1}{8}$ "	$9\frac{5}{8}$ "

no. H24CL Copper Line $\frac{3}{8}$ " DRILL

capacity.....	$\frac{3}{8}$ "
speed.....	1000 R.P.M.*
bearings.....	all sealed ball bearings
weight.....	11 lbs.
shipping weight.....	15 lbs.
overall length.....	$13\frac{1}{2}$ "

*Additional speeds available at extra cost.

Nos. 20CL, 24CL and H24CL equipped with 3-jaw geared chuck and key in capacity specified; momentary trigger switch and locking pin; ten feet of 3-conductor cable and plug.



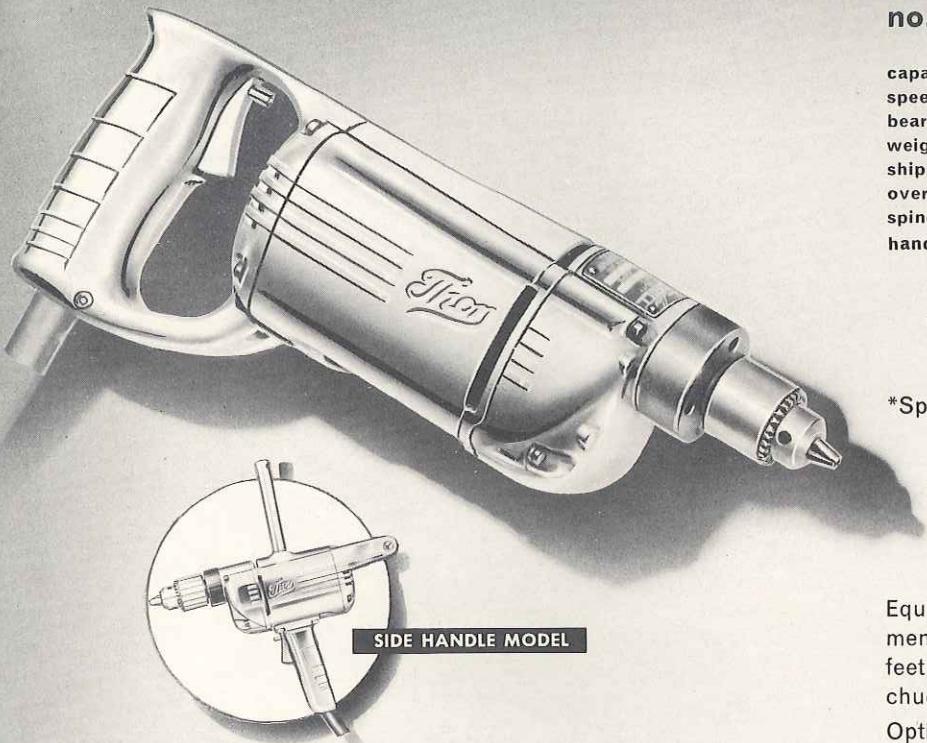
SANDING-POLISHING ATTACHMENTS



COMPLETE ACCESSORIES
LISTING . . . PAGE 49

**5/16"-3/8" Capacity
DRILLS**

SILVERLINE. Power-rated in same class with industrial $\frac{1}{2}$ " drills, these all ball bearing tools are geared and equipped for $\frac{5}{16}$ " and $\frac{3}{8}$ " heavy duty industrial service. Power reserve assures extra-long armature life. Equipped standard with forward rotation and end handles. Options include side handle, with or without reversing switch as specified.



**no. EJ1 HEAVY DUTY 5/16" DRILL
no. EJ2 HEAVY DUTY 3/8" DRILL**

	EJ1	EJ2
capacity.....	$\frac{5}{16}$ "	$\frac{3}{8}$ "
speed.....	1500 R.P.M.	1000 R.P.M.
bearings.....	all heavy duty ball bearings throughout	
weight.....	6 $\frac{1}{2}$ lbs.	7 $\frac{1}{4}$ lbs.
shipping weight.....	8 $\frac{1}{2}$ lbs.	9 lbs.
overall length.....	12 $\frac{7}{16}$ "	12 $\frac{7}{8}$ "
spindle offset.....	1"	1"
handle.....	grip	grip

ADDITIONAL $\frac{5}{16}$ " MODELS

Code No.	R.P.M.	Handle
*	1000	Grip
EJ6	1500	Side

*Specify no. EJ2 and $\frac{5}{16}$ " chuck.

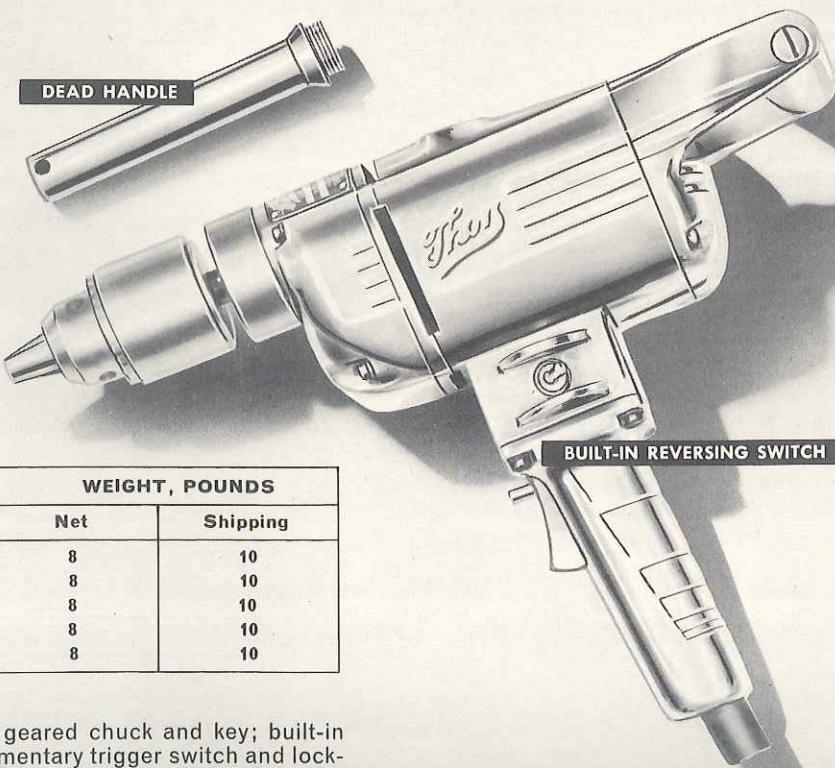
ADDITIONAL $\frac{3}{8}$ " MODELS

Code No.	R.P.M.	Handle
EJ3	750	Grip
EJ7	1000	Side
EJ8	750	Side

Equipped with 3-jaw geared chuck and key; momentary trigger switch and locking pin; seven feet of 3-conductor cable and plug. (Keyless chucks available at extra cost.)

Optional at no extra cost, side handle in place of grip handle.

**1/4"-1/2" heavy duty
REVERSIBLE DRILLS**



Cat. No.	Capacity	Speed R.P.M.	WEIGHT, POUNDS	
			Net	Shipping
EJ0R *	$\frac{1}{4}$ "	2000	8	10
EJ6R	$\frac{5}{16}$ "	1500	8	10
EJ7R	$\frac{3}{8}$ "	1000	8	10
EJ8R	$\frac{3}{8}$ "	750	8	10
EJ9R-T	$\frac{1}{2}$ "	500	8	10

*Specify "Side Handle"

All models equipped with heavy duty 3-jaw geared chuck and key; built-in reversing switch; side switch handle with momentary trigger switch and locking pin; spade handle and removable dead handle; seven feet of 3-conductor cable and plug.

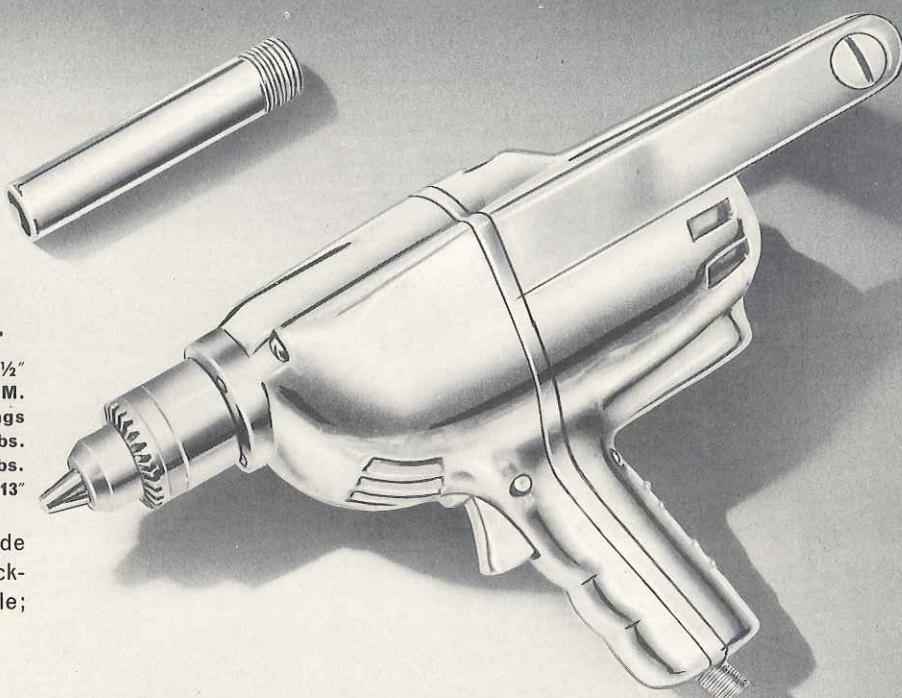


CHICAGO, ILLINOIS

COPPERLINE. A fine line of electric tools where the type of application does not justify the investment in heavy duty industrial type tools. 32CL is for normal trade and craft applications. H32CL ($\frac{1}{2}$ ") and H40CL ($\frac{5}{8}$ ") drills are more powerful tools which feature ball bearing construction and will give excellent service on all but the heaviest duty applications.

1/2"-5/8" Capacity

DRILLS



no. 32CL CopperLine $\frac{1}{2}$ " DRILL

capacity.....	$\frac{1}{2}$ "
speed.....	650 R.P.M.
bearings.....	self-aligning bronze and ball thrust bearings
weight.....	8 $\frac{1}{4}$ lbs.
shipping weight.....	12 lbs.
overall length.....	13"

Equipped with 3-jaw geared chuck and key; side handle with momentary trigger switch and locking pin; spade handle; removable dead handle; six feet of 3-conductor cable and plug.



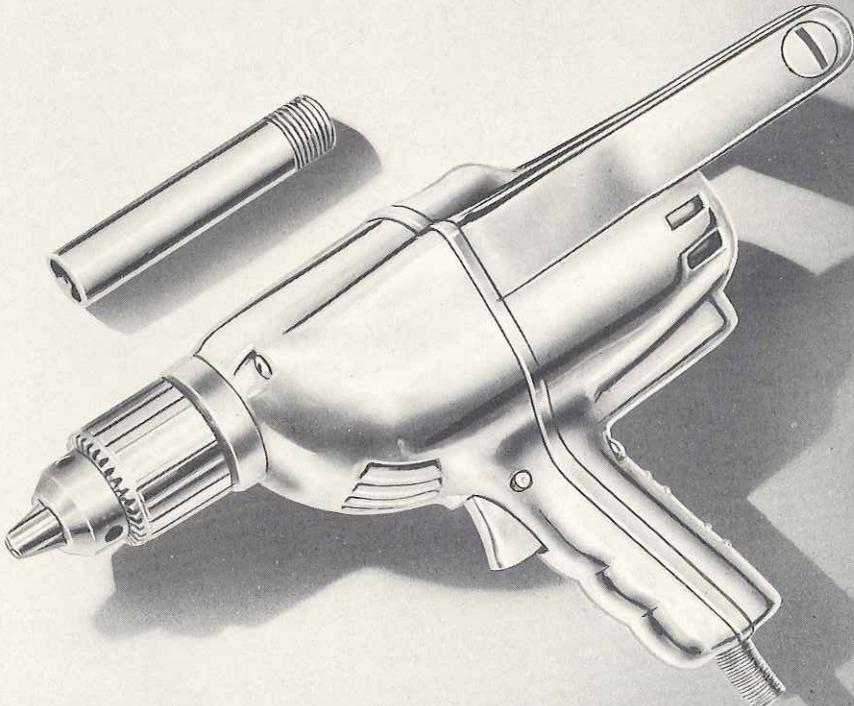
**COMPLETE ACCESSORIES
LISTING . . . PAGE 49**

no. H32CL CopperLine $\frac{1}{2}$ " DRILL

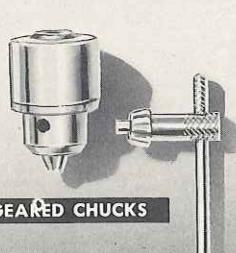
no. H40CL CopperLine $\frac{5}{8}$ " DRILL

	H32CL	H40CL
capacity.....	$\frac{1}{2}$ "	$\frac{5}{8}$ "
speed.....	600 R.P.M.	400 R.P.M.
bearings.....	all sealed ball bearings	
weight.....	11 $\frac{1}{4}$ lbs.	11 $\frac{1}{2}$ lbs.
shipping weight.....	15 lbs.	15 lbs.
overall length.....	14"	14"

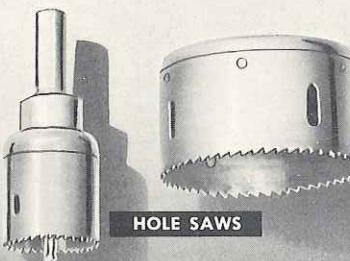
Equipped with 3-jaw geared chuck and key; side handle with momentary trigger switch and locking pin; spade handle; removable dead handle; ten feet of 3-conductor cable and plug.



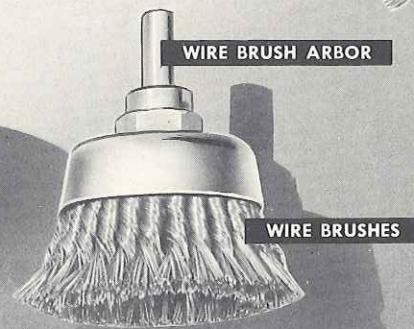
MORSE TAPER SOCKETS



GEARED CHUCKS



HOLE SAWS

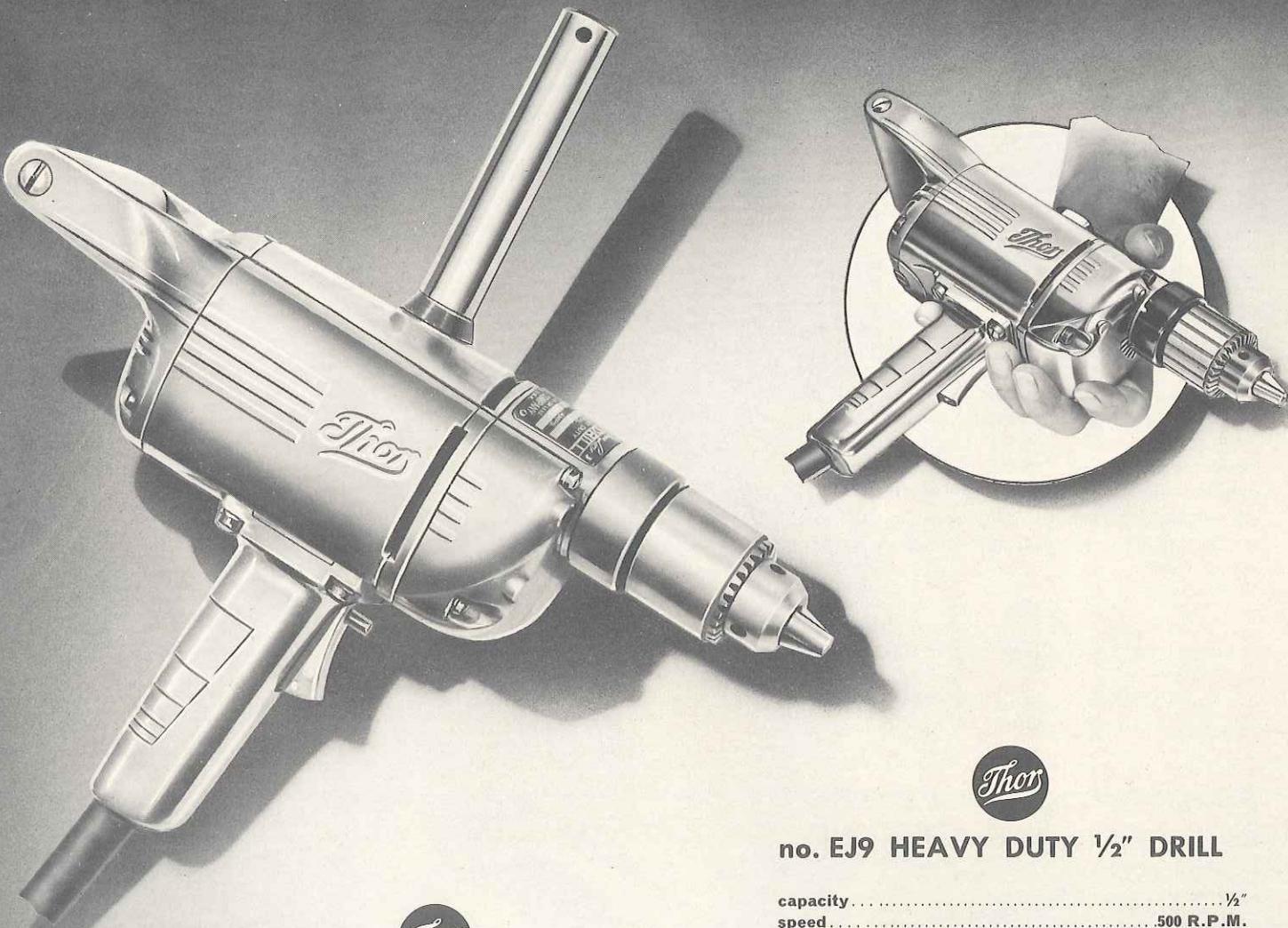


WIRE BRUSH ARBOR

WIRE BRUSHES

**1/2" Capacity
DRILL**

A truly outstanding tool, world famous for stall proof power, compactly housed for high production drilling and handling ease. The leader in the line. All-ball-bearing, heavy-duty construction throughout equip it for severe service on production lines, in maintenance departments, construction industries—wherever first quality tooling pays off.



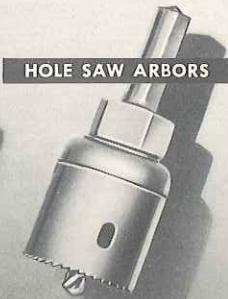
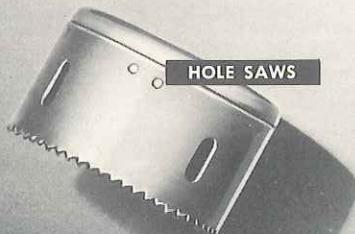
no. EJ9 HEAVY DUTY 1/2" DRILL



**COMPLETE ACCESSORIES
LISTING . . . PAGE 49**

capacity.....	1/2"
speed.....	.500 R.P.M.
bearings.....	8 oversize precision ball bearings
weight.....	8 lbs.
shipping weight.....	10 lbs.
overall length.....	12 1/4"
spindle offset.....	1"

Equipped with 3-jaw geared chuck and key; side handle with momentary trigger switch and locking pin; removable dead handle; spade handle; seven feet of 3-conductor cable and plug.



Thor EJ9RT reversible $\frac{1}{2}$ " drill features the world-famous power and handling ease of the EJ9 combined with a built-in reversing switch in handle, for unmatched service in poleline drilling and other wood boring operations where augers must be backed out under power. Equipped with special chuck for reversible operation.

1/2" Capacity Reversible
DRILL



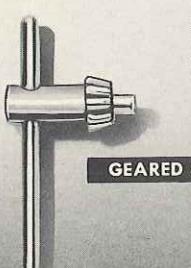
**no. EJ9RT REVERSIBLE
HEAVY DUTY $\frac{1}{2}$ " DRILL**

capacity.....	$\frac{1}{2}$ "
speed.....	500 R.P.M.
bearings.....	8 oversize precision ball bearings
weight.....	$8\frac{1}{4}$ lbs.
shipping weight.....	$10\frac{1}{4}$ lbs.
overall length.....	$12\frac{1}{4}$ "
spindle offset.....	.1"

Equipped with 3-jaw geared chuck and key; built-in reversing switch; side handle with momentary trigger switch and locking pin; removable dead handle; spade handle; seven feet of 3-conductor cable and plug.

No. 74757 ARBOR

WIRE BRUSHES



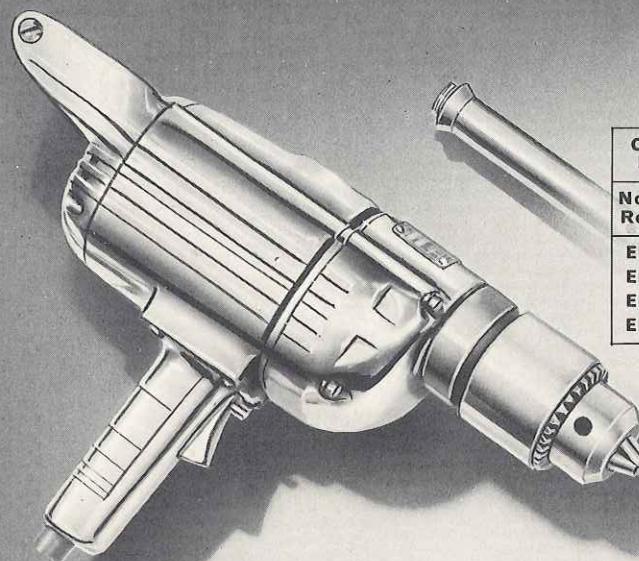
GEARED CHUCKS



Developed specifically for pole line drilling, the Thor EJ9RT has also found wide acceptance in machine shops, boiler shops, railroads and other heavy industries.

1/2"-1" Reversible DRILLS

Complete range of large-capacity electric drills ruggedly built for dependable service in manufacturing, maintenance and construction industries. Motors, gearing, bearings and switches are designed with extra capacity to stand up under hard and heavy usage. All sizes available with reversing switches in handles for forward or reverse operation.



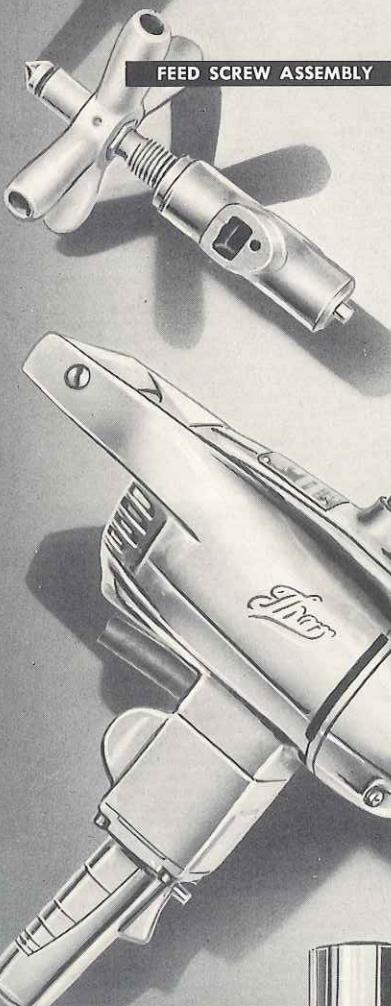
EL SERIES REVERSIBLE DRILLS

CATALOG NUMBER		Duty Rating	Capacity	Speed R.P.M.	WEIGHT, POUNDS		Length Over-all	Spindle Offset	Spindle Thread
Non-Rev.	Rev.				Net	Shipping			
EL4	EL4R	Ex. H.D.	1/2"	750	15	25	14 1/4"	1 1/4"	5/8"-16
EL5	EL5R	Ex. H.D.	1/2"	525	15	25	14 1/4"	1 1/4"	5/8"-16
EL6	EL6R	H.D.	5/8"	425	15 1/4	25	14 1/4"	1 1/4"	5/8"-16
EL7	EL7R	Std. D.	3/4"	350	15 7/8	25	14 5/8"	1 1/4"	3/4"-16

EL SERIES STANDARD EQUIPMENT—Heavy Duty 3-jaw geared chuck and key; side handle; momentary safety switch with locking pin; spade handle; dead handle; seven feet of 3-conductor cable and plug.

OPTIONAL: EL4, EL5—No. 1 or No. 2 Morse Taper Socket in place of chuck; EL6—No. 2 Morse Taper Socket; EL7—No. 2 or No. 3 Morse Taper Socket.

EXTRA EQUIPMENT, all sizes, No. 80450 Feed Screw Assembly.

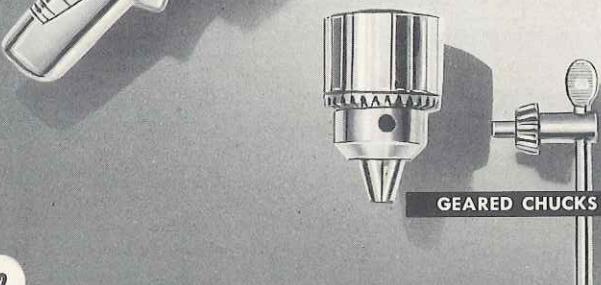


EN SERIES REVERSIBLE DRILLS

CATALOG NUMBER		Duty Rating	CAPACITY		Speed r.p.m.	WEIGHT, POUNDS		Lgth. Over-all	Spindle Offset	Spindle Thread
Non-Rev.	Rev.		Drilling	Ream-ing		Net	Shpg.			
EN5	EN5R	Ex. H.D.	5/8"	—	430	17	25	16 1/4"	1 1/32"	5/8"-16
EN6	EN6R	Ex. H.D.	3/4"	—	350	17 3/4	26	16 5/8"	1 1/32"	3/4"-16
EN7	EN7R	H.D.	7/8"	5/16"	350	16	24	18 3/8"	1 1/32"	3/4"-16
EN8	EN8R	H.D.	1"	3/4"	300	16	24	18 3/8"	1 1/32"	3/4"-16

EN SERIES STANDARD EQUIPMENT—Side handle; momentary safety switch with locking pin; spade handle; dead handle; seven feet of 3-conductor cable and plug; EN5, EN6, heavy duty 3-jaw geared chuck and key; EN7, EN8, no. 3 Morse Taper Socket.

OPTIONAL: EN5—No. 2 Morse Taper Socket in place of chuck; EN6—No. 2 or No. 3 Morse Taper Socket; EN7, EN8—No. 2 Morse Taper Socket or 3/4" 3-jaw geared chuck and key. EXTRA EQUIPMENT, all sizes, No. 87844 Feed Screw.



GEARED CHUCKS



MORSE TAPER SOCKET



Large capacity electric drills equipped standard for special purpose applications in coal mining and wood construction industries. Powerful motors, extra sturdy gears, bearings and switches assure dependable operation under adverse conditions. Sturdily housed in reenforced castings for long satisfactory service.

1¼" DRILLS COAL DRILLS WOOD BORERS

no. U3Z HEAVY DUTY 1¼" DRILL no. U3S HEAVY DUTY 1¼" DRILL

	U3Z	U3S
capacity drilling.....	1¼"	1¼"
capacity reaming.....	15/16"	H.D.
speed.....	350 R.P.M.	78 R.P.M.
weight.....	49½ lbs.	93 lbs.
shipping weight.....	71 lbs.	115 lbs.
overall length.....	19 7/8"	27 1/4"
spindle offset.....	2 3/4"	4 1/8"

Equipped with no. 3 internal Morse taper socket, safety switch handle, dead handle, feed screw, 7 feet of 3-conductor cable.

Optional: 1¼" square hole chuck, spade handle instead of feed screw.

Extra Charge Equipment: No. 3 internal Morse Taper Use-Em-Up Socket.

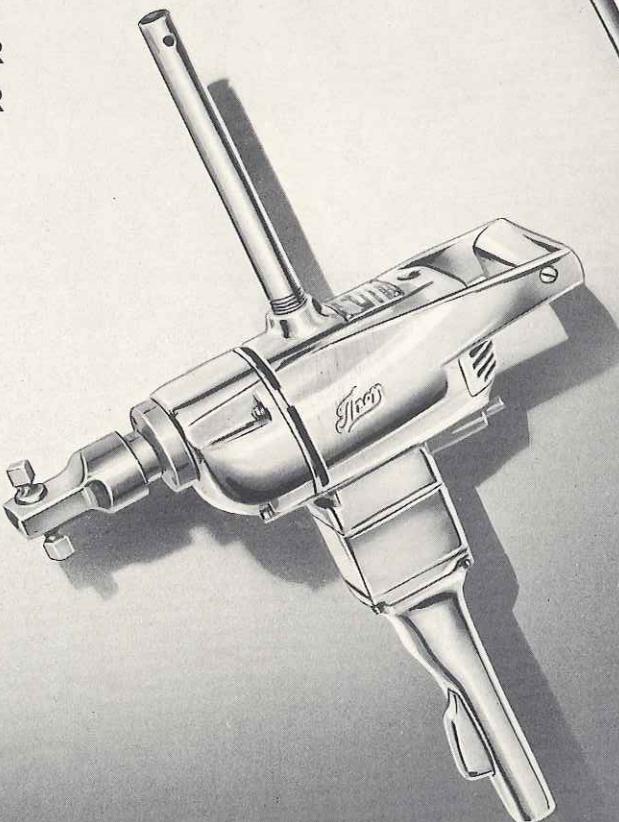
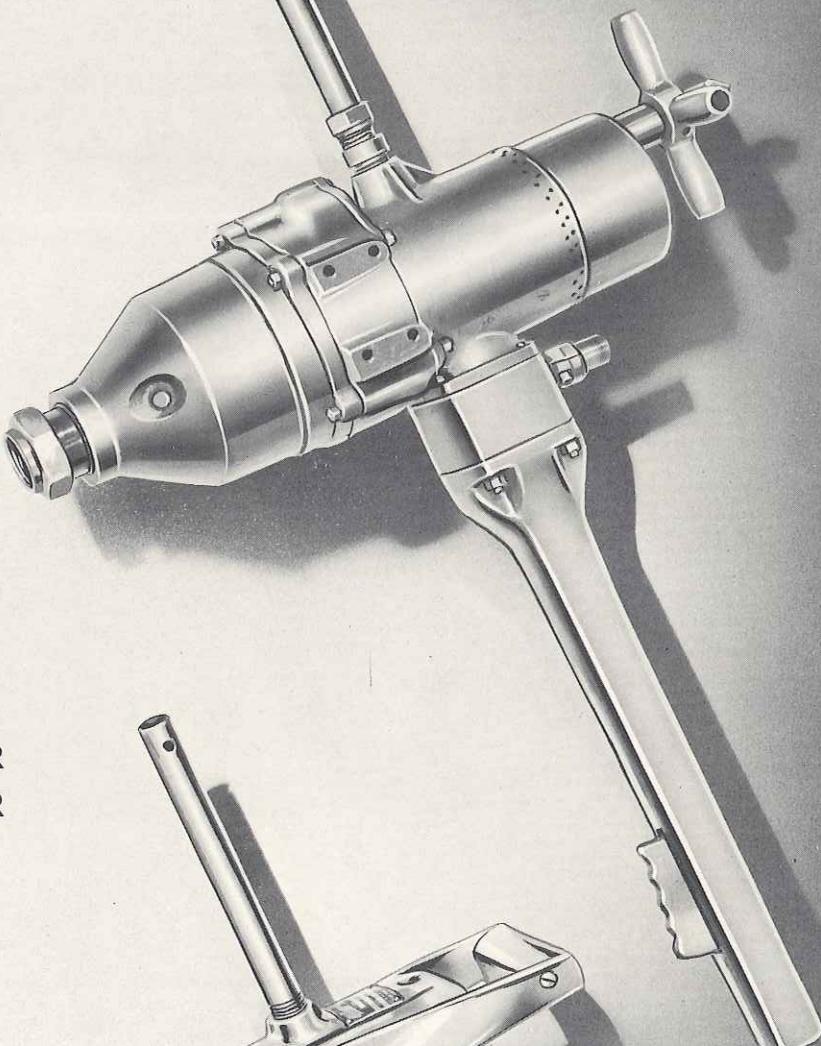


COMPLETE ACCESSORIES
LISTING ... PAGE 49

no. EN7C COAL-DRILL WOOD-BORER no. EN8C COAL-DRILL WOOD-BORER

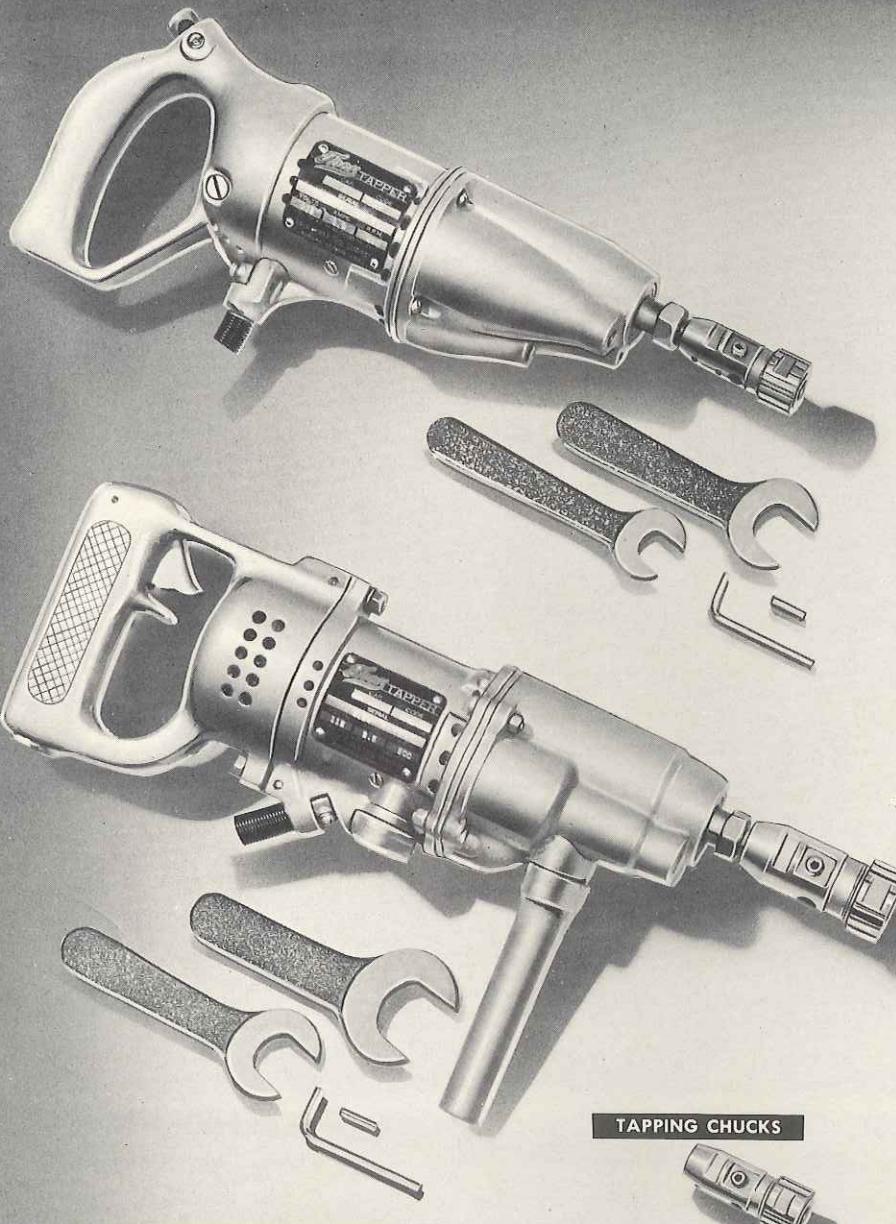
	EN7C	EN8C
speed.....	350 R.P.M.	300 R.P.M.
weight.....	19 7/8 lbs.	19 7/8 lbs.
shipping weight.....	27 7/8 lbs.	27 7/8 lbs.
overall length.....	17 7/8"	17 5/8"
spindle offset.....	1 1/32"	1 1/32"

Equipped with flat taper coal-auger chuck (as illustrated) or wood boring chuck for ½" diameter straight round shank wood bits; safety switch side handle; spade handle and removable dead handle; seven feet of 3-conductor cable and plug.

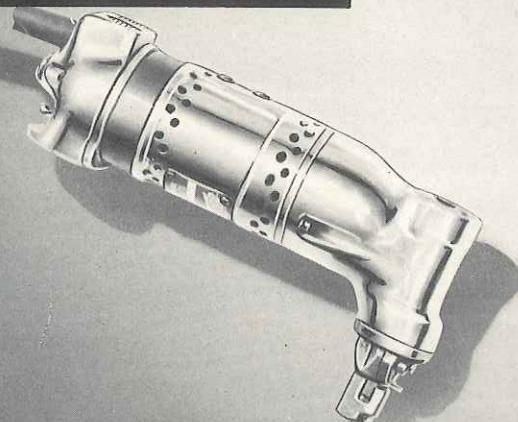


1/4"-3/8" Reversible TAPPERS

Special purpose machines specifically designed for tapping operations where the tool must be brought to the work. Mechanical reverse is almost completely automatic, when the tool is pushed forward, it drives forward. When it is pulled back, it reverses its direction and backs the tap out under power. Standard and heavy duty models.



Sheet Metal NIBBLER



no. UKS HEAVY DUTY 1/4" TAPPER

capacity	1/4"
speed	460 R.P.M.
bearings	...all heavy duty ball bearings throughout
weight	8 1/4 lbs.
shipping weight	11 lbs.
overall length	14 1/4"

Equipment includes no. 75282 tapping chuck; grip handle with momentary plunger switch and lock; seven feet of 3-conductor cable and plug.

no. UBR HEAVY DUTY 3/8" TAPPER

capacity	3/8"
speed	500 R.P.M.
bearings	...all heavy duty ball bearings throughout
weight	11 1/2 lbs.
shipping weight	14 lbs.
overall length	16 1/4"

Equipment includes no. 75839 tapping chuck; grip handle with momentary trigger switch and lock; seven feet of 3-conductor cable and plug.



COMPLETE ACCESSORIES
LISTING ... PAGE 49

no. U1N SHEET METAL NIBBLER

capacity to	{ no. 20 ga. mild sheet steel no. 16 ga. soft sheet alum.
minimum cutting radius	1"
diameter of body	2 1/2"
weight	3 3/4 lbs.
shipping weight	6 lbs.
overall length	9"

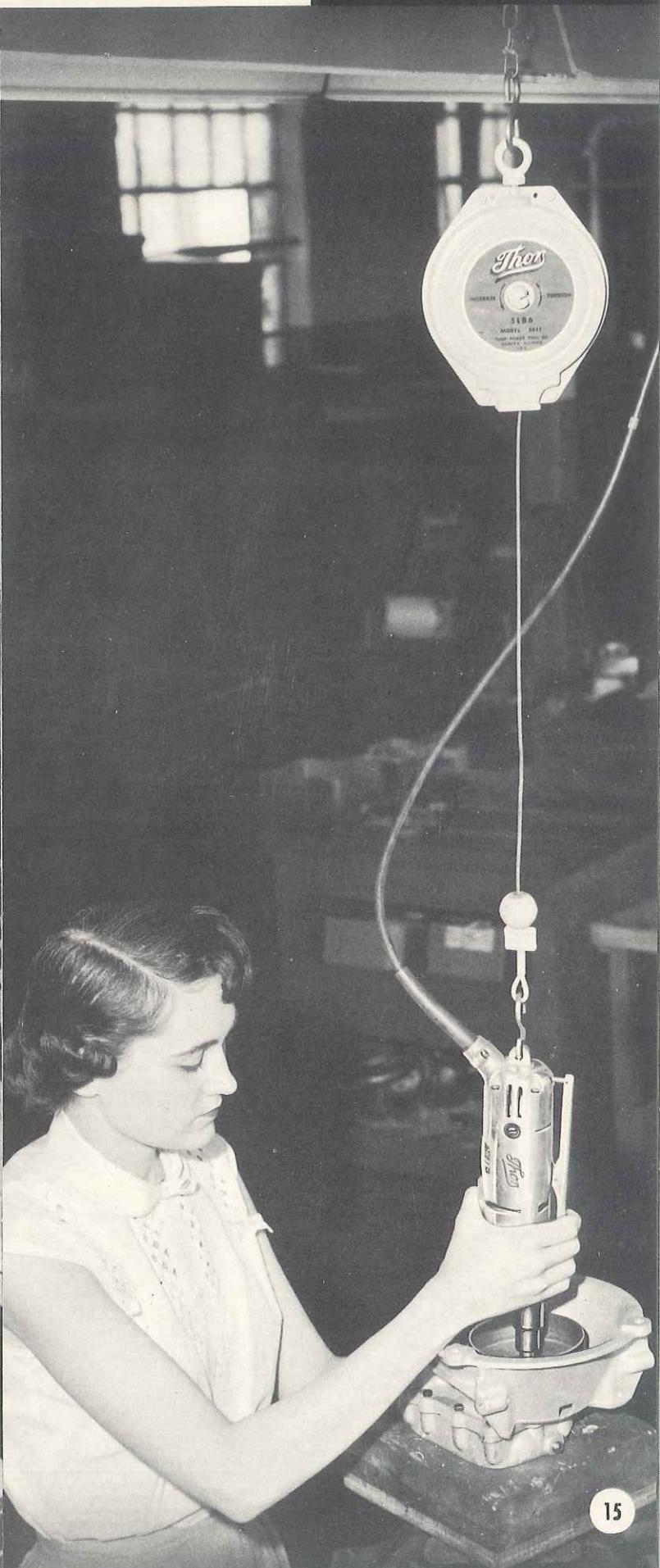
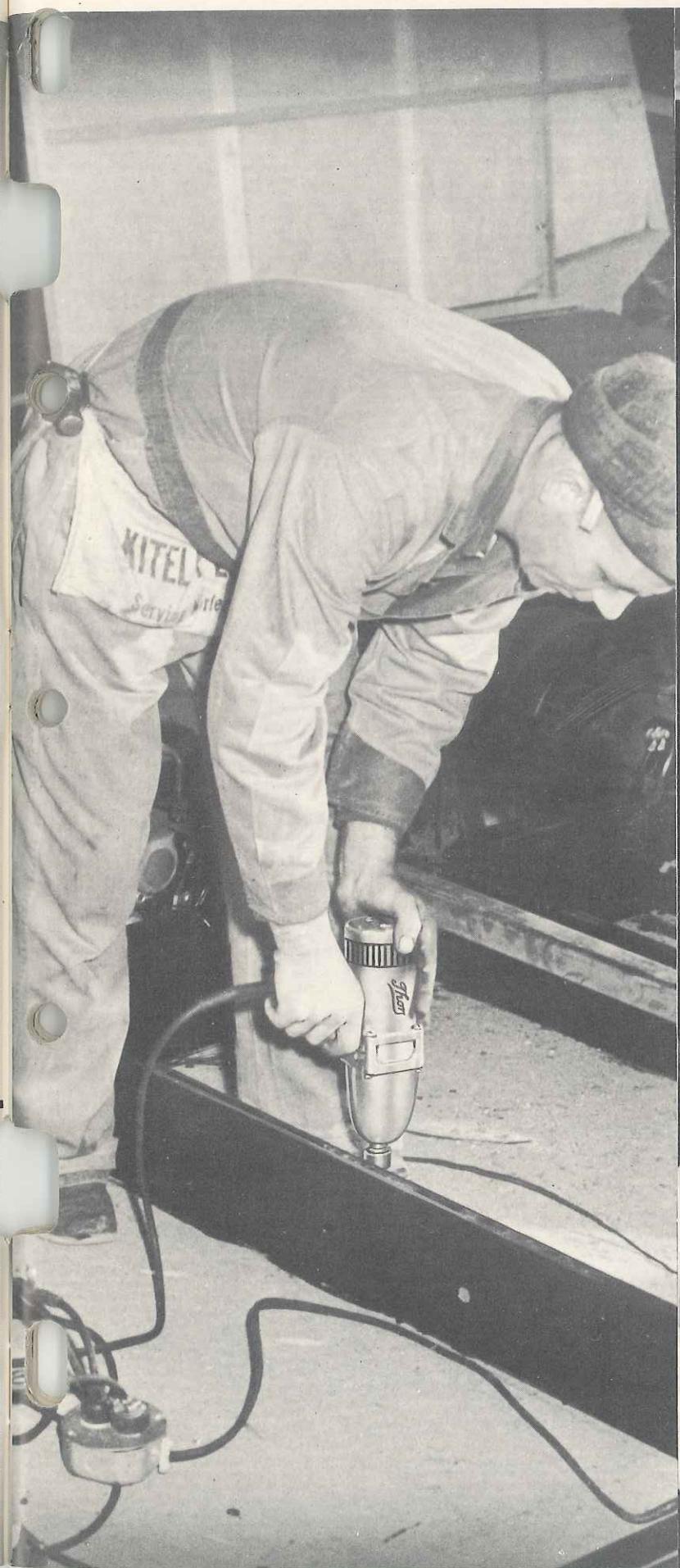
Equipment includes 1 extra cutting punch; adjusting wrench, wrench for clamp screw; seven feet of 3-conductor cable and plug.



CHICAGO, ILLINOIS

Cutting costs of assembly operations is a specialty with Thor, made possible both by the complete range of assembly tools available, plus engineering assistance for particular problems, based on Thor's long and wide experience in this field. Power assembly tools can increase your production, lower your costs, improve the quality of your product.

**IMPACT WRENCHES
SCREWDRIVERS
NUTSETTERS**



**1/2" Sq. Drive
IMPACT
WRENCH**

This $\frac{1}{2}$ " square drive tool is recommended for normal impact wrench applications, where production requirements do not call for the stamina of a more expensive tool. Exclusive slide reverse switch on trigger handle for easier operation. With attachments can be used for drilling in wood, metal or masonry, sanding, wire-brushing, etc.



no. EW5 IMPACT WRENCH $\frac{1}{2}$ " drive

capacity.....	$\frac{3}{8}$ "
speed (forward or reverse).....	1900 R.P.M.
blows per minute.....	1900
bearings.....	ball bearings and anti-friction bearings
weight.....	7 lbs.
shipping weight.....	10 lbs.
overall length.....	9 $\frac{1}{2}$ "
spindle offset.....	1 $\frac{1}{16}$ "

Equipped with momentary trigger switch; reversing switch; 15 feet 3-conductor cable and plug.



**COMPLETE ACCESSORIES
LISTING ... PAGE 49**

no. EW5KC Carrying Case Kit

CONTENTS: model EW5 Impact Wrench with six hexagon sockets, $\frac{1}{2}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $1\frac{1}{16}$ ", $\frac{9}{16}$ ", $1\frac{3}{16}$ "; no. 16906 steel carrying case.
(shipping weight 13 lbs.)

no. EW5K Basic Kit

CONTENTS: model EW5 Impact Wrench with six hexagon sockets, $\frac{1}{2}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $1\frac{1}{16}$ ", $\frac{9}{16}$ ", $1\frac{3}{16}$ ".
(shipping weight 11 lbs.)



Heavy duty industrial impact wrenches designed for rugged use on assembly, repair and maintenance departments. All-ball-bearing construction, heavy duty motors, slip-ring reverse, protected by steel bridge and heavy-section aluminum end-cap. Accessories for EW6 provide wide range of useful applications.

1/2"-5/8" Sq. Drive

IMPACT WRENCHES

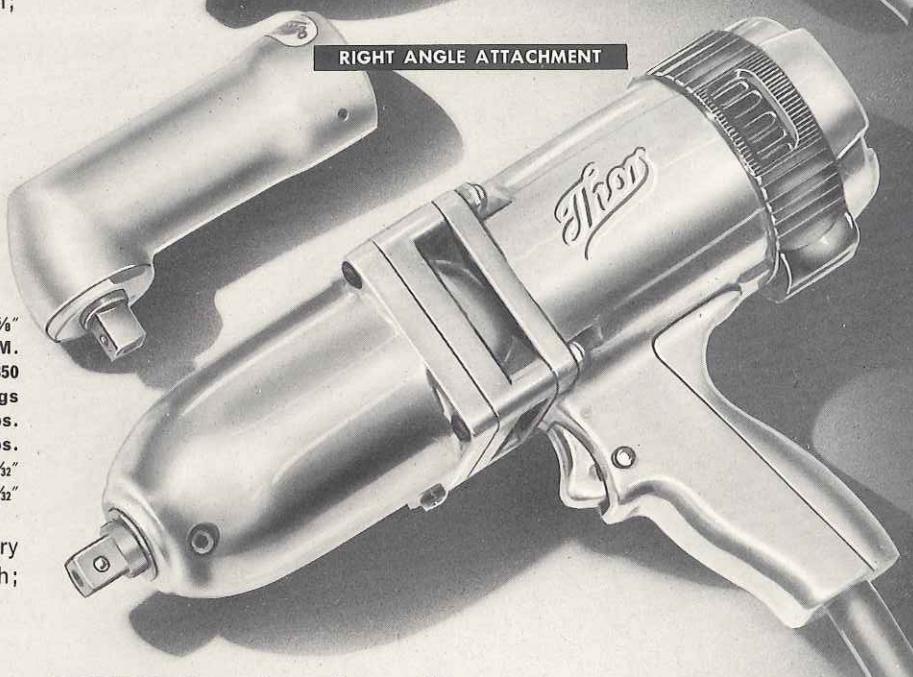
no. EW6 IMPACT WRENCH 1/2" drive

capacity.....	3/8"
speed (forward or reverse).....	2150 R.P.M.
blows per minute.....	2000
bearings.....	large ball and pin bearings
weight.....	6 1/2 lbs.
shipping weight.....	8 1/2 lbs.
overall length.....	10"
spindle offset.....	1 1/8"

Equipped with pistol grip handle; momentary trigger switch with locking pin; reversing switch; 12 feet of 3-conductor cable and plug.



RIGHT ANGLE ATTACHMENT



no. EW10 IMPACT WRENCH 5/8" drive

capacity.....	5/8"
speed (forward or reverse).....	2000 R.P.M.
blows per minute.....	1850
bearings.....	large ball and pin bearings
weight.....	11 1/2 lbs.
shipping weight.....	15 1/2 lbs.
overall length.....	11 7/32"
spindle offset.....	1 1/2"

Equipped with pistol grip handle; momentary trigger switch with locking pin; reversing switch; 12 feet of 3-conductor cable and plug.



no. EW6KC Carrying Case Kit

CONTENTS: model EW6 Impact Wrench with six hexagon sockets, 1/16", 1/8", 5/16", 3/8", 1/4", 5/16"; no. 22252 steel carrying case. (shipping weight 15 lbs.)

no. EW6K Basic Kit

CONTENTS: model EW6 Impact Wrench; no. 76387 collet chuck and wrenches; no. 21797 no. 2 M.T. Socket; no. 21798 M.T. Reducer Sleeve; six hexagon sockets, 1/16", 1/8", 5/16", 3/8", 1/4", 5/16"; no. 78142 metal accessory box; no. 22805 drift pin. (shipping weight 13 lbs.)

no. EW10KC Carrying Case Kit

CONTENTS: model EW10 Impact Wrench with four hexagon sockets, 13/16", 7/8", 1", 1 1/8"; no. 80852 steel carrying case. (shipping weight 25 1/2 lbs.)

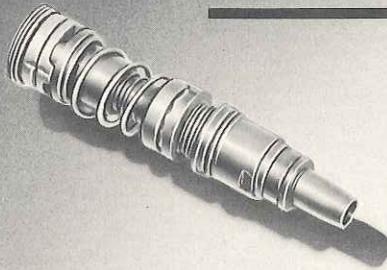
no. EW10K Basic Kit

CONTENTS: model EW10 Impact Wrench; no. 22473 collet chuck with extra 1/2" collet and wrenches; no. 22470 no. 3 M.T. Socket; no. 22471 M.T. Reducer Sleeve; four hexagon sockets, 13/16", 7/8", 1", 1 1/8"; no. 22472 drift pin; no. 22187 socket wrench adaptor 5/8" female to 1/2" drive; no. 22188 socket wrench adaptor 5/8" female to 3/4" drive; no. 22537 metal accessory box. (shipping weight 20 1/2 lbs.)



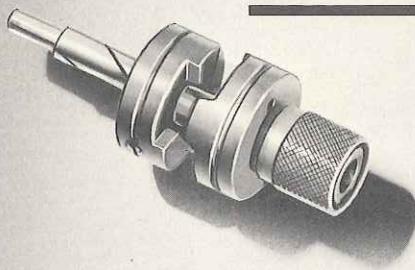
CLUTCH ATTACHMENTS

Invented, pioneered and developed by Thor engineers, the clutch attachment permits the application of electric tools to screwdriving and nut setting applications, by allowing the motor to reach full speed before engaging it with the driving spindle. Four types of industrial clutches are available as described below.



THOR UNI-TORK CLUTCH ATTACHMENT

The Uni-Tork clutch is a smooth, quiet, snap-in snap-out mechanism. When the desired torque is reached, Uni-Tork snaps out of engagement and remains completely disengaged until re-cycled by applying tool to next screw or nut—no ratcheting, no slipping, no buzzing of clutch jaws to cause overdriving torque variations. Just as Uni-Tork snaps out when the desired torque has been reached, it snaps into engagement when applied to work (and remains locked in engagement until correct torque is reached, instead of depending on operator pressure). This exclusive feature completely eliminates operator judgment in precision driving of threaded fasteners.



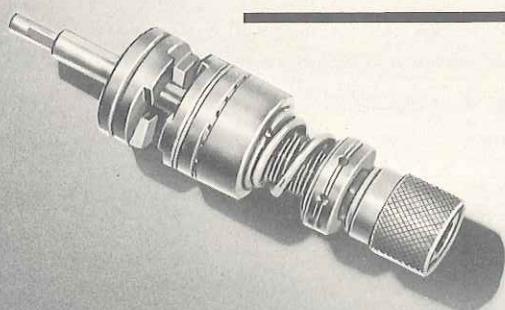
THOR POSITIVE CLUTCH ATTACHMENT

A positive clutch attachment is equipped with two clutch jaws that are manually engaged by pressure applied by the operator. When pressure is released the clutch disengages, stopping the rotary motion of the bit. At the instant of tightening (screw or nut) the operator and the tool absorb the slight impact. Positive clutch attachments have a limited range of work because the jaw faces have a set angle. The jaws are disengaged when pressure is released. Thus, the tightening of the screw or nut depends entirely upon the judgment of the operator.



THOR DOUBLE SLIP CLUTCH ATTACHMENT

The double slip clutch attachment has two separate clutches, one a positive, manually-engaged type which in turn drives an adjustable, spring tension slip clutch. This attachment with its adjustable feature can be set to drive any size screw in the capacity range of the attachment to a predetermined, uniform tightness. Once set, it eliminates all guess-work and guarantees tension of every nut or screw driven with 100% uniformity... automatically slipping when the desired tension is reached. In addition, this type of clutch cushions the impact, relieving the operator of fatiguing jolts and reducing spoilage by eliminating breaking of studs and stripping of threads. It also adds considerably to the life of the machine and clutch jaws by absorbing stress and shock loads.



THOR KICK-OUT CLUTCH ATTACHMENT

This attachment is similar in action to the double slip clutch. It operates on virtually the same principle, except that the clutch does not slip when the desired tension is reached, but automatically kicks out, and a set of cams holds the spring tension clutch open for a full revolution of disengagement. This type is used on larger capacity machines and, like the slip clutch, it drives each screw or nut to exactly the same predetermined tension, is adjustable for driving to different tensions, and absorbs the shocks. The cam prolongs the life of the clutch jaws and lowers maintenance cost of the tool.



Mount portable power tools, gauges, blow guns, etc., on Thor suspension balancers for added efficiency, faster work cycles. Suspends tool within easy reach of the operator, plays out suspension cable as tool is applied to work, automatically retracts cable and tool as work is completed. Quick and easy external adjustments for cable tension and travel.

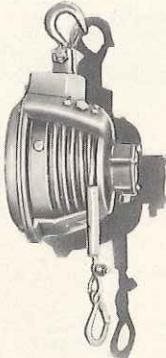
5-10 POUND CAPACITY

BALANCERS

no. 5LB6 BALANCER for tool suspension

capacity	{ maximum.....	5 lbs.
	{ minimum.....	0 lbs.
travel.....		6 ft.
weight.....		.3 $\frac{1}{2}$ lbs.
shipping weight.....		4 lbs.
hook-to-hook distance.....		11 $\frac{1}{16}$ "

Snap hook for mounting tools to cable loop available as optional equipment when specified.



10, 20, 30 POUND BALANCERS

Catalog No.	0	0X	10B	10BX	20B	30B
Capacity, lbs.						
Maximum.....	8	10	10	20	20	30
Minimum.....	0	3	5	10	10	20
Range of Travel in Feet.....	5	5	5	5	6	6
Distance Hook to Hook						
Standard*.....	19"	19"	35"	35"	54"	54"
Minimum**.....	13"	13"	16"	16"	17 $\frac{1}{2}$ "	17 $\frac{1}{2}$ "
Weight, lbs.....	13 $\frac{1}{2}$	13 $\frac{1}{2}$	12 $\frac{3}{4}$	12 $\frac{3}{4}$	45	45

*As shipped with standard length cable.

**Obtainable by shortening cable.

no. 10LB6 BALANCER for tool suspension

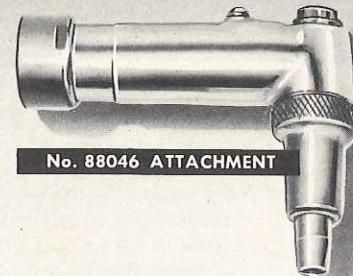
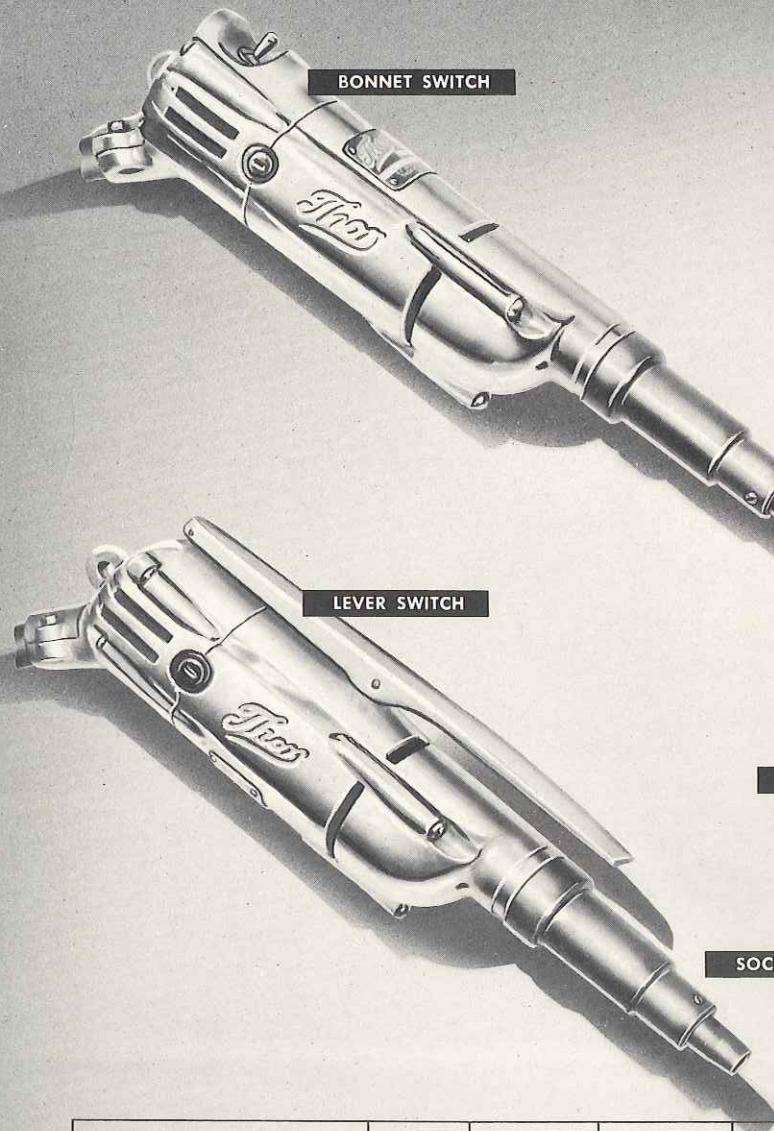
capacity	{ maximum.....	10 lbs.
	{ minimum.....	1 lb.
travel.....		6 ft.
weight.....		.3 $\frac{1}{2}$ lbs.
shipping weight.....		4 lbs.
hook-to-hook distance.....		10"

Snap hook for mounting tools to cable loop available as optional equipment when specified.



**No. 10 Capacity Reversible
SCREWDRIVERS
NUTSETTERS**

A completely new and modern line of production screwdrivers for light assemblies using up to No. 10 threaded fasteners. Adjustable double slip clutch machines shown below for driving to predetermined tension. Available in bonnet or lever switch types, designed for suspension from Thor balancers. Reversing switch models indicated by letter "R".



BITS AND FINDERS

SOCKET WRENCH SHANK

SOCKET

Catalog No.		Speed R.P.M.	Screws or Nuts to and Including	Type Clutch	Attach- ment No.	Attachment Angle	Type Switch	Weight Pounds*		Length Inches*
Reversible	Non- Reversible							Net	Ship- ping	
EB-19	EB-19	2500	No. 8	Dbl. Slip	87060	Straight	Bonnet	3 1/16	6	12 1/4
	EB-18	1500	No. 10	Dbl. Slip	87060	Straight	Bonnet	3 1/16	6	12 1/4
	EB-17	1000	No. 10	Dbl. Slip	87060	Straight	Bonnet	3 1/16	6	12 1/4
	EB-15	550	No. 10	Dbl. Slip	87060	Straight	Bonnet	3 1/16	6	12 1/4
EBLR-14	EBL-14	2500	No. 8	Dbl. Slip	87060	Straight	Lever	3 3/16	6	12 1/4
EBLR-13	EBL-13	1500	No. 10	Dbl. Slip	87060	Straight	Lever	3 3/16	6	12 1/4
EBLR-12	EBL-12	1000	No. 10	Dbl. Slip	87060	Straight	Lever	3 3/16	6	12 1/4
EBLR-10	EBL-10	550	No. 10	Dbl. Slip	87060	Straight	Lever	3 3/16	6	12 1/4

*Weights and lengths are for non-reversing models, reversible models weigh 1/4 lb. more and are 1 1/2" longer.

Equipped with seven feet of 3-conductor cable and plug. One finder and one 1/4" hexagon shank screwdriver bit; or one standard length socket wrench shank, 1/4", 5/32" or 3/8" square drive, and one standard socket.

All above tools may be equipped with no. 88044 25° angle attachment at extra cost.



CHICAGO, ILLINOIS

Holding torque inside close tolerances is a problem instantly solved by new Thor UNI-TORK screwdrivers. UNI-TORK clutches disengage *instantly* and remain disengaged until re-cycled for next screw. No ratcheting action, no slipping of clutch jaws. External adjustment holds setting indefinitely. UNI-TORK is standard on EBU drivers below.

**No. 10 Capacity Reversible
SCREWDRIVERS
NUTSETTERS**



COMPLETE ACCESSORIES
LISTING . . . PAGE 49

Catalog No.		Speed R.P.M.	Screws or Nuts to and Including	Type Clutch	Attach- ment No.	Attachment Angle	Type Switch	Weight Pounds*		Length Inches*
Reversible	Non- Reversible							Net	Ship- ping	
EBLUR-14	EBU-19	2500	No. 10	Uni-Tork	88064	Straight	Bonnet	3 5/8	6	13 1/4
	EBU-18	1500	No. 10	Uni-Tork	88064	Straight	Bonnet	3 5/8	6	13 1/4
	EBU-17	1000	No. 10	Uni-Tork	88064	Straight	Bonnet	3 5/8	6	13 1/4
	EBU-15	550	No. 10	Uni-Tork	88064	Straight	Bonnet	3 5/8	6	13 1/4
	EBLU-14	2500	No. 10	Uni-Tork	88064	Straight	Lever	3 3/4	6	13 1/4
	EBLU-13	1500	No. 10	Uni-Tork	88064	Straight	Lever	3 3/4	6	13 1/4
	EBLU-12	1000	No. 10	Uni-Tork	88064	Straight	Lever	3 3/4	6	13 1/4
	EBLU-10	550	No. 10	Uni-Tork	88064	Straight	Lever	3 3/4	6	13 1/4
EBLR-40	EB-40	1200	No. 10	Dbl. Slip	88046	Rt. Angle	Bonnet	4 5/16	7	13 1/2
	EB-41	800	No. 10	Dbl. Slip	88046	Rt. Angle	Bonnet	4 5/16	7	13 1/2
	EB-42	440	No. 10	Dbl. Slip	88046	Rt. Angle	Bonnet	4 5/16	7	13 1/2
	EBL-40	1200	No. 10	Dbl. Slip	88046	Rt. Angle	Lever	4 7/16	7	13 1/2
	EBL-41	800	No. 10	Dbl. Slip	88046	Rt. Angle	Lever	4 7/16	7	13 1/2
	EBL-42	440	No. 10	Dbl. Slip	88046	Rt. Angle	Lever	4 7/16	7	13 1/2
EBLR-50†	EB-50†	1200	10 Nut	Dbl. Slip	88047	Rt. Angle	Bonnet	3 15/16	7	13 1/2
	EB-51†	800	10 Nut	Dbl. Slip	88047	Rt. Angle	Bonnet	3 15/16	7	13 1/2
	EB-52†	440	10 Nut	Dbl. Slip	88047	Rt. Angle	Bonnet	3 15/16	7	13 1/2
	EBL-50†	1200	10 Nut	Dbl. Slip	88047	Rt. Angle	Lever	4 1/16	7	13 1/2
	EBL-51†	800	10 Nut	Dbl. Slip	88047	Rt. Angle	Lever	4 1/16	7	13 1/2
	EBL-52†	440	10 Nut	Dbl. Slip	88047	Rt. Angle	Lever	4 1/16	7	13 1/2

*Weights and lengths are for non-reversing models, reversible models weigh 1/4 lb. more and are 1 1/2" longer.

†Nut Setters only, equipped with seven feet of 3-conductor cable and plug; 1/4", 5/32" or 9/32" square drive, and one standard socket.

Equipped with seven feet of 3-conductor cable and plug; one finder and one 1/4" hexagon shank screwdriver bit; or one standard length socket wrench shank, 1/4", 5/32" or 9/32" square drive, and one standard socket.

No. 12 Capacity

SCREWDRIVERS NUTSETTERS

The complete line of pistol grip tools for production screw driving and nut setting, up to No. 12 thread SIZE capacity. All ball bearing construction. Clutch types available to meet all industrial requirements—positive, slip, kick-out and the new Thor UNI-TORK instantaneous disengagement clutch for precise holding of torque limits.



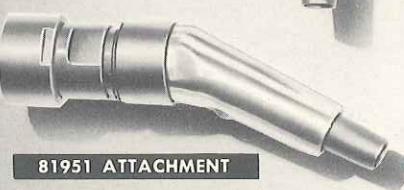
COMPLETE ACCESSORIES
LISTING ... PAGE 49



88064 ATTACHMENT



81946 ATTACHMENT



81951 ATTACHMENT



81953 ATTACHMENT



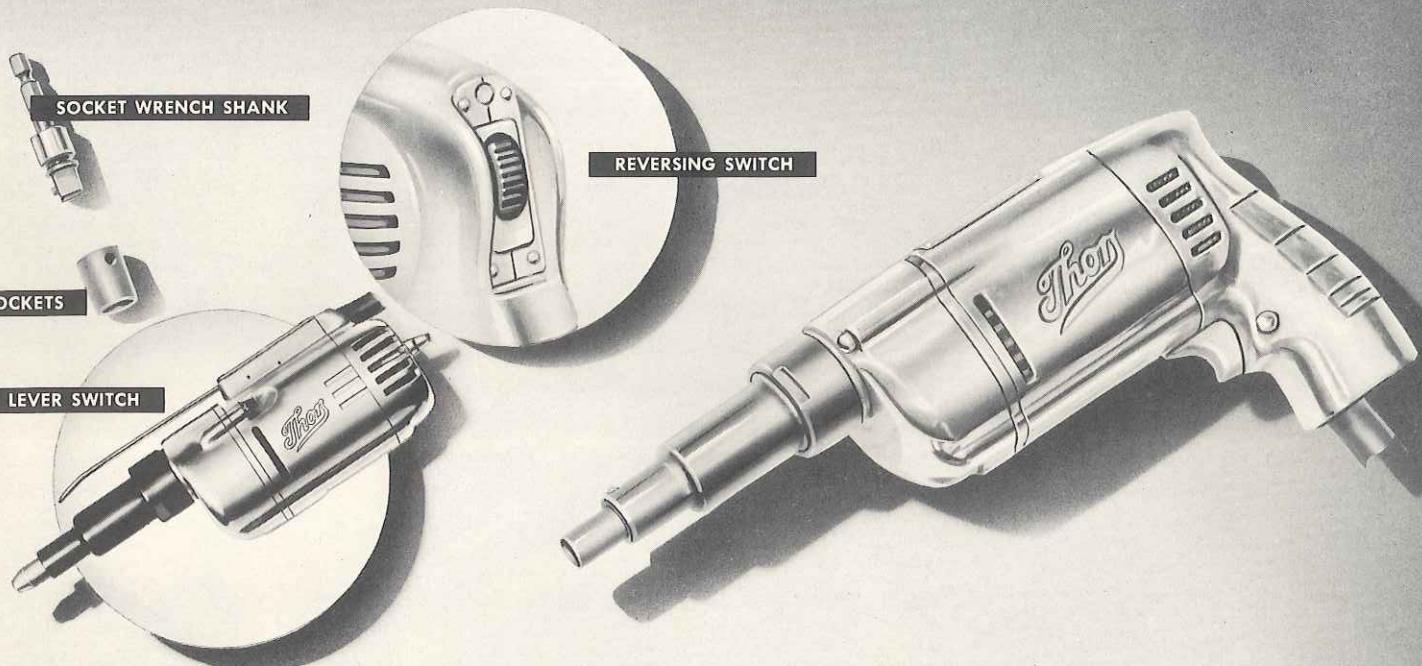
Cat. No.	R.P.M.	Type Clutch	Attach. No.	Attach. Angle	Wt. Lbs.	Length
ED17	800	Positive	81193	Straight	3	9½"
ED16	1100	Positive	81193	Straight	3	9½"
ED18	500	Positive	81193	Straight	3	9½"
ED12	800	Dbl. Slip	81201	Straight	3	9½"
ED11	1100	Dbl. Slip	81201	Straight	3	9½"
ED13	500	Dbl. Slip	81201	Straight	3	9½"
ED47	800	Dbl. Slip	81951	25°	3½	11¼"
ED46	1100	Dbl. Slip	81951	25°	3½	11¼"
ED48	500	Dbl. Slip	81951	25°	3½	11¼"
ED11U	1100	Uni-Tork	88064	Straight	3½	10¾"
ED12U	800	Uni-Tork	88064	Straight	3½	10¾"
ED13U	500	Uni-Tork	88064	Straight	3½	10¾"
ED14U	2500	Uni-Tork	88064	Straight	3¾	10¾"
ED41	880	Dbl. Slip	81946	Rt. Angle	4½	10¾"
ED42	660	Dbl. Slip	81946	Rt. Angle	4½	10¾"
ED51	880	Kickout	81953	Rt. Angle	3¾	10¾"
ED52	660	Kickout	81953	Rt. Angle	3¾	10¾"

EQUIPMENT: ED51 and ED52 are nut setters only, with $\frac{1}{4}$ ", $\frac{5}{32}$ ", or $\frac{3}{8}$ " square drive and one standard socket. All other tools in ED-series can be equipped either as screwdrivers or nut setters with optional selection of either one finder and one $\frac{1}{4}$ " hexagon shank screwdriver bit; or one standard length socket wrench shank, $\frac{1}{4}$ ", $\frac{5}{32}$ ", or $\frac{3}{8}$ " square drive, and one standard socket. All sizes have pistol grip with momentary trigger switch and locking pin; seven feet of 3-conductor cable and plug.



Heavy duty all-ball-bearing industrial screwdrivers for dependable, rapid driving of threaded fasteners up to size No. 14 capacity. Complete range of speeds for all requirements. Available in positive clutch and in adjustable slip-clutch for driving to predetermined torque. Angle models for close quarter driving.

No. 14 Capacity Reversible
SCREWDRIVERS
NUTSETTERS



Cat. No.		R.P.M.	Type Clutch	Attach. No.	Attach. Angle	Wt. Lbs.	Length
Reversible	Non-Reversible						
U22FR	U22F	500	Dbl. Slip	80429	†Straight	4 3/4	12 1/4"
U22FR-P	U22F-P	500	Positive	76793	Straight	4 3/4	12 1/4"
U22FR-25	U22F-25	500	Dbl. Slip	79743	25°	4 3/4	12 1/4"
U16FR	U16F	750	Dbl. Slip	80429	†Straight	4 3/4	12 1/4"
U16FR-P	U16F-P	750	Positive	76793	Straight	4 3/4	12 1/4"
U16FR-25	U16F-25	750	Dbl. Slip	79743	25°	4 3/4	12 1/4"
U18FR	U18F	1000	Dbl. Slip	80429	†Straight	4 3/4	12 1/4"
U18FR-P	U18F-P	1000	Positive	76793	Straight	4 3/4	12 1/4"
U18FR-25	U18F-25	1000	Dbl. Slip	79743	25°	4 3/4	12 1/4"
*U18FLR	*U18FL	1000	Dbl. Slip	80429	†Straight	4 5/8	10 7/8"
*U18FLR-25	*U18FL-25	1000	Dbl. Slip	79743	25°	4 5/8	10 7/8"
U19FR	U19F	600	Dbl. Slip	79408	Rt. Angle	4 3/4	12 1/4"
**U19FR	**U19F	400	Dbl. Slip	79408	Rt. Angle	4 3/4	12 1/4"
**U19FR	**U19F	800	Dbl. Slip	79408	Rt. Angle	4 3/4	12 1/4"
U19FNR	U19FN	375	Kickout	68797	Rt. Angle	4 3/4	12 1/4"
**U19FNR	**U19FN	250	Kickout	68797	Rt. Angle	4 3/4	12 1/4"
**U19FNR	**U19FN	500	Kickout	68797	Rt. Angle	4 3/4	12 1/4"

*Furnished with lever throttle standard.

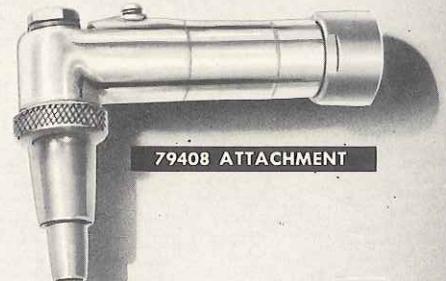
**Optional speed models—when ordering specify speed.

†May be ordered with UNI-TORK clutch attachment no. 88496 (in place of attachment specified) at extra cost.

EQUIPMENT: U19FN is nut setter only, with $\frac{3}{8}$ " or $\frac{1}{2}$ " square drive and one standard socket. All other tools in F-series can be equipped either as screwdrivers or nutsetters with optional selection of either one finder and one $\frac{1}{4}$ " hexagon shank screwdriver bit; or one standard length socket wrench shank, $\frac{1}{4}$ ", $\frac{5}{16}$ " or $\frac{3}{8}$ " square drive, and one standard socket. All sizes (except U18FL, U18FL-25) have pistol grip with momentary trigger switch and locking pin; seven feet of 3-conductor cable and plug.



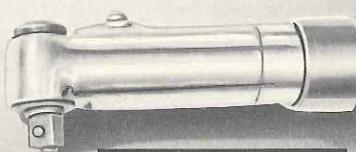
No. 88496 ATTACHMENT



79408 ATTACHMENT



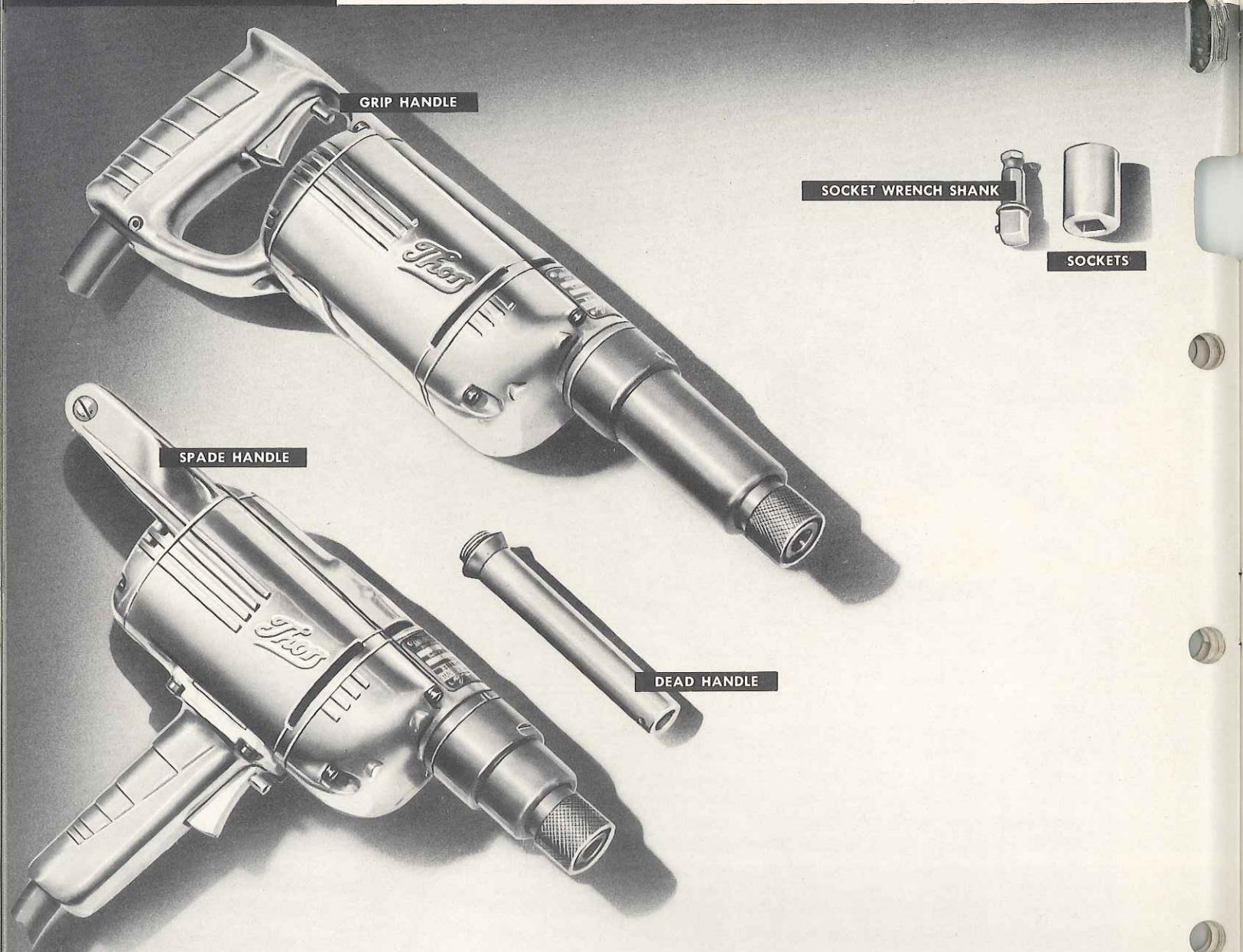
79743 ATTACHMENT



68797 ATTACHMENT

**No. 18 Capacity Reversible
SCREWDRIVERS
NUTSETTERS**

Heavy duty all-ball-bearing industrial nut setters and screwdrivers powered with the famous Thor EJ motor. Side handle models available with reversing switches for disassembly and repair work. Available with positive clutches or with adjustable kick-out clutches for driving threaded fasteners to predetermined torque.



Cat. No.		Capacity		R.P.M.	Type Clutch	Attachment No.	Type Handle	Wt. Lbs.	Length
Reversible	Non-Reversible	Screw	Nut Thrd. Size						
*EJ18R	EJ18	No. 18	3/8"	500	Positive	82045	Side	8 1/4	12 1/8"
	EJ23	No. 18	3/8"	500	Kickout	82023	Grip	8	15 1/2"
	EJ12	No. 18	5/16"	750	Positive	82045	Grip	7 3/4	13 1/4"
	EJ22	No. 18	5/16"	750	Kickout	82023	Grip	8	15 1/2"
*EJ27R	EJ27	No. 18	5/16"	750	Kickout	82023	Side	8 5/8	14 7/8"

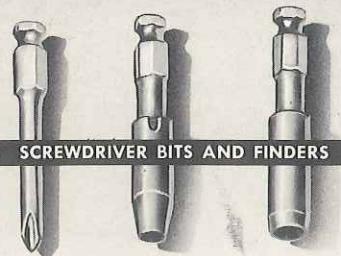
*With reversing switch built into handle.

EQUIPMENT: All sizes equipped with one standard 7/16" hexagon socket wrench shank with 1/2" square drive and one standard socket or one 7/16" hexagon shank screwdriver bit and finder assembly; seven feet of 3-conductor cable and plug. EJ18R, EJ18, EJ27R and EJ27 equipped with side handle, spade handle and dead handle; EJ23, EJ12 and EJ22 equipped with grip handle. All sizes have momentary trigger switch with locking pin.

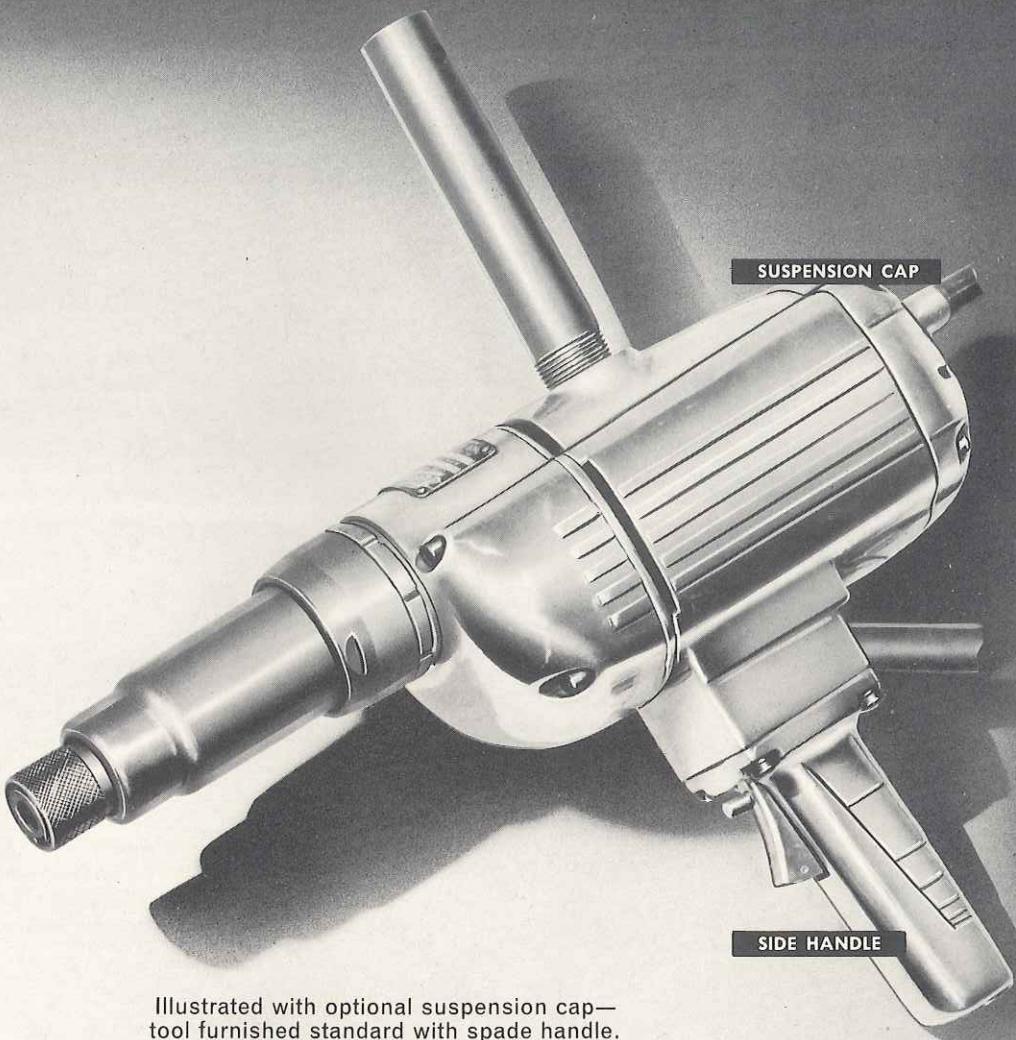


Large capacity drivers for setting nuts or lag screws up to No. 24 (1/2") capacity. Available with reversing switch for removing threaded fasteners. Super-powered with Thor "EL" class motors used in extra-heavy-duty 1/2" drills. Clutch types include positive for manual control or adjustable kick-out for driving to predetermined torque.

No. 24 Capacity Reversible
**SCREWDRIVERS
NUTSETTERS**



COMPLETE ACCESSORIES
LISTING . . . PAGE 49



Illustrated with optional suspension cap—
tool furnished standard with spade handle.

Cat. No.		Capacity		R.P.M.	Type Clutch	Attachment No.	Type Handle	Wt. Lbs.	Length
Reversible	Non-Reversible	Screw	Nut Thrd. Size						
EL23R	EL23	*No. 24	1/2"	525	Kickout	82333	Side	15	15 1/4"
EL28R	EL28	*No. 24	1/2"	525	Positive	82062	Side	14 3/4	14 3/4"
EL24R	EL24	*No. 24	1/2"	350	Kickout	82333	Side	15	15 1/4"
EL29R	EL29	*No. 24	1/2"	350	Positive	82062	Side	14 3/4	14 3/4"

*And up to 3/8" Lag Screws.

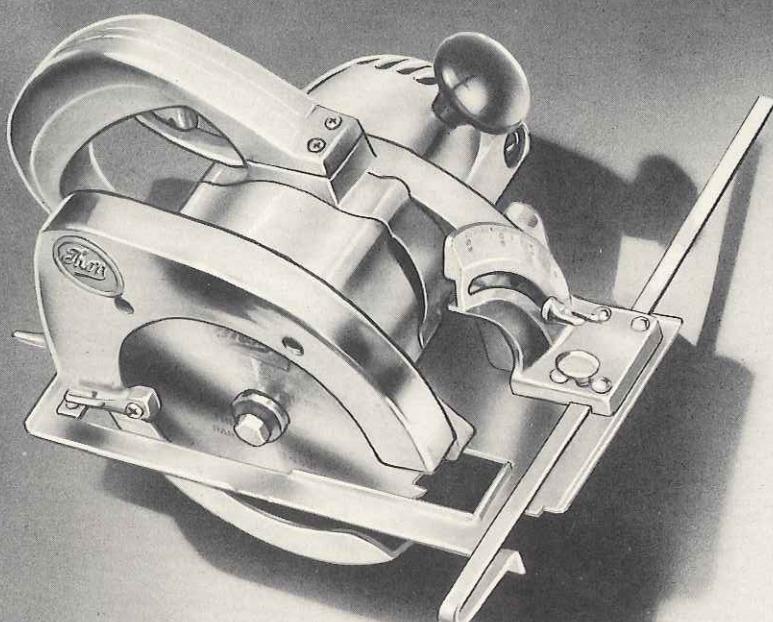
EQUIPMENT: All sizes equipped with one no. 20519 7/16" hexagon socket wrench shank with 1/2" square drive, or one standard size 7/16" hexagon shank screwdriver bit and finder assembly; side handle with momentary trigger switch and locking pin, spade handle, dead handle, seven feet of 3-conductor cable and plug. Suspension cap optional in place of spade handle. Reversible models have reversing switch built into handle.



6 1/4"-7" CopperLine

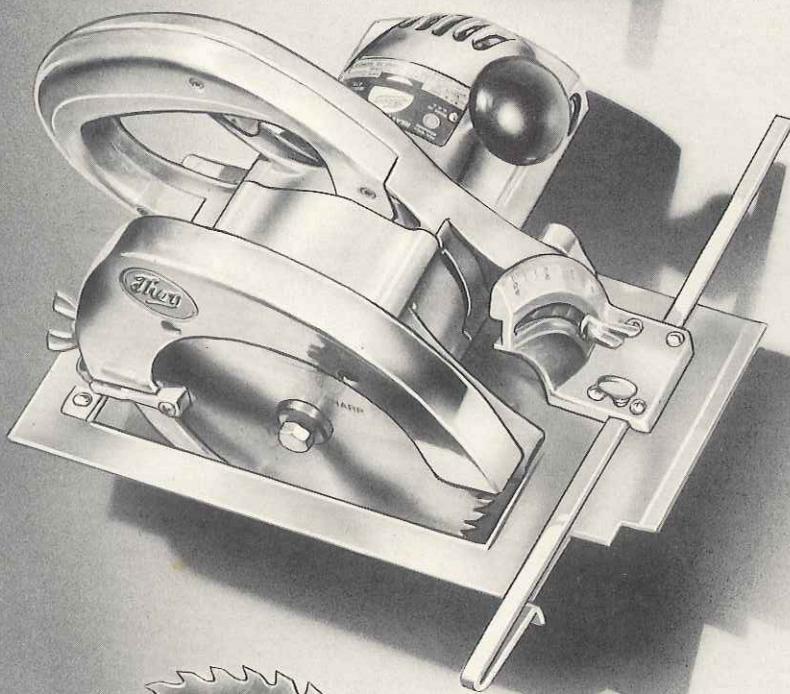
SAWS

COPPERLINE. Economy priced tools offering power, depth of cut and operating advantages usually found only in the most expensive electric saws. Features include safety switch, automatic retractable guard with lifting lever for plunge cuts; clearly indexed angle cutting swivel for cuts to 45°; easy to follow cross-cut guide and sturdy rip guide.



no. C6 STANDARD DUTY 6 1/2" SAW

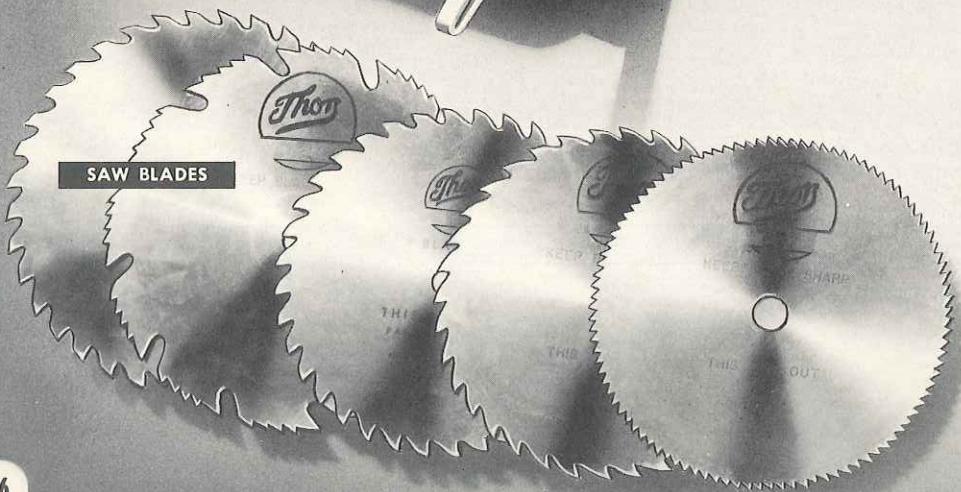
blade size.....	6 1/2"
speed R.P.M.....	5500
bearings.....	ball and anti-friction
max. depth of cut.....	2 5/8"
45° depth of cut.....	1 1/16"
weight lbs.....	10 1/2
shipping wt. lbs.....	19



no. C7 STANDARD DUTY 7 1/4" SAW

blade size.....	7 1/4"
speed R.P.M.....	5400
bearings.....	all sealed ball bearings
max. depth of cut.....	2 7/8"
45° depth of cut.....	1 3/4"
weight lbs.....	14 1/2
shipping wt. lbs.....	20

Above saws are equipped with $5/8$ " round arbor hole; one combination blade; safety switch; telescoping spring loaded ball-bearing blade guard; 10 feet 3-conductor cable and plug.



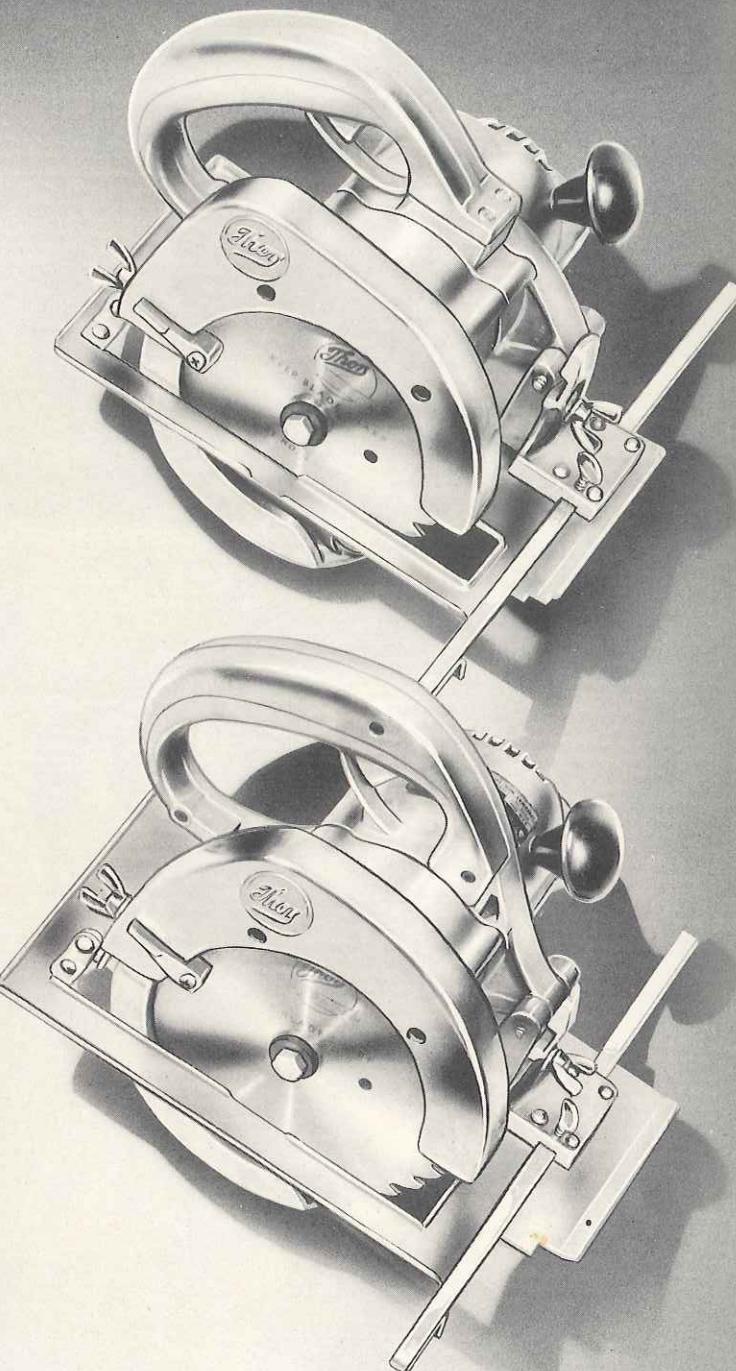
COPPERLINE. Value packed electric saws for the builder equipped standard with automatically retractable blade guard, guard retracting lever, safety switch, tilting arbor to 45°, cross-cut guide, rip guide. Carrying cases available as extra equipment. No. C6 6 1/4" saw represents a truly exceptional value built to combine low price with standard operating features.

6 1/4" - 8" CopperLine

SAWS

no. C6B STANDARD DUTY 6 1/2" SAW

blade size.....	6 1/2"
speed R.P.M.....	5500
bearings.....	all ball bearing construction
max. depth of cut.....	2 5/16"
45° depth of cut.....	1 1/16"
weight lbs.....	10 1/2
shipping wt. lbs.....	19



no. C8 HEAVY DUTY 8" SAW

blade size.....	8"
speed R.P.M.....	5500
bearings.....	all ball bearing construction
max. depth of cut.....	2 13/16"
45° depth of cut.....	2"
weight.....	14 3/4 lbs.
shipping wt.....	20 lbs.

Above saws are equipped with 5/8" round arbor hole; one combination blade; safety switch; telescoping spring loaded ball-bearing blade guard; 10 feet 3-conductor cable and plug.

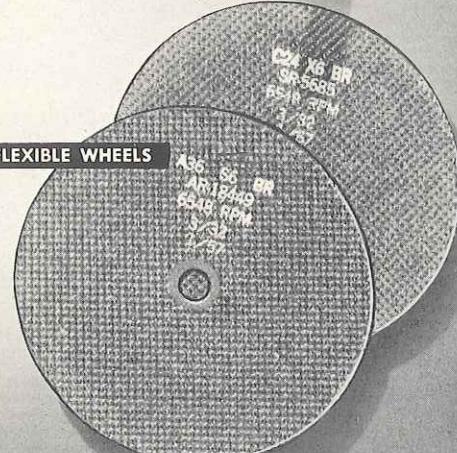


COMPLETE ACCESSORIES
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SAFETY SWITCH



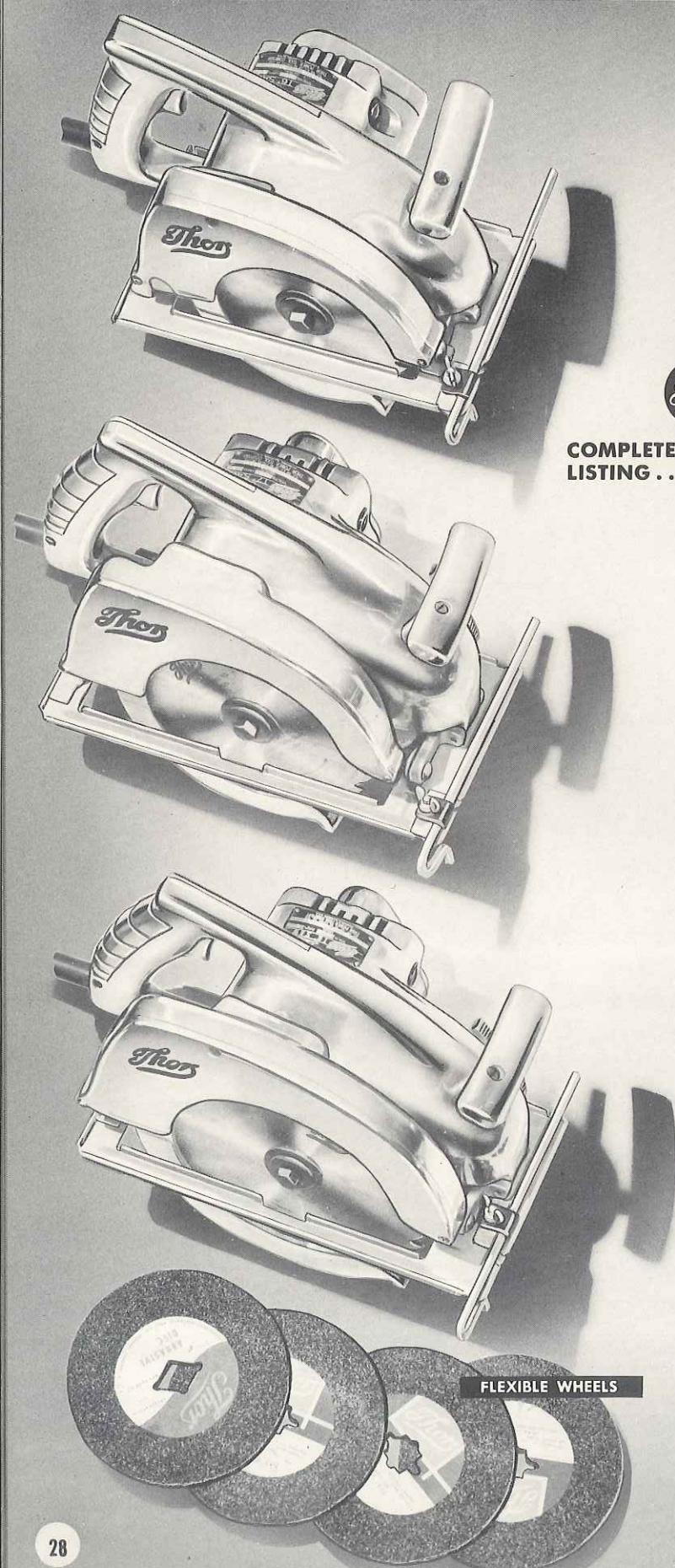
FLEXIBLE WHEELS



6"-7"-8" SilverLine

SAWS

SILVERLINE all-ball-bearing heavy duty saws, built to industrial standards. Exclusive long-shaft blade mounting combines direct gear drive with unequalled stability, accuracy and long life. Unique safety switch completely eliminates accidental starting of blade. Ball-bearing safety guard, extra large and safe shoeplate. Rip guide standard all sizes.



FLEXIBLE WHEELS

no. T6 HEAVY DUTY 6 1/4" SAW

blade size.....	6 1/4"
speed.....	5000 R.P.M.
bearings.....	all heavy duty ball bearings
max. depth of cut.....	2 1/2"
45° depth of cut.....	1 3/8"
weight.....	13 1/2 lbs.
shipping weight.....	18 lbs.



COMPLETE ACCESSORIES
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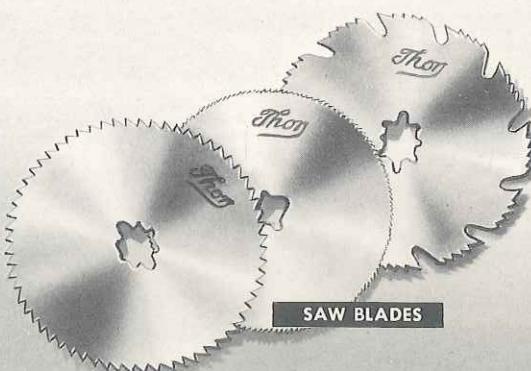
no. T7 HEAVY DUTY 7 1/4" SAW

blade size.....	7 1/4"
speed.....	4500 R.P.M.
bearings.....	all heavy duty ball bearings
max. depth of cut.....	2 1/2"
45° depth of cut.....	1 7/8"
weight.....	17 1/4 lbs.
shipping weight.....	34 lbs.

no. T8 HEAVY DUTY 8 1/4" SAW

blade size.....	8 1/4"
speed.....	4500 R.P.M.
bearings.....	all heavy duty ball bearings
max. depth of cut.....	2 15/16"
45° depth of cut.....	2 5/32"
weight.....	18 lbs.
shipping weight.....	37 lbs.

All sizes equipped with diamond arbor; one combination blade; 10 feet 3-conductor cable and plug; blade nut wrench, lubricant and steel carrying case. (T6 is furnished standard without carrying case ... To order with carrying case, specify T6C.)



SAW BLADES

SILVERLINE heavy duty all-ball-bearing industrial saws, for cutting timbers up to $4\frac{1}{16}$ " thick. Exclusive longshaft blade mounting, safety switch, ball bearing blade guard. Built with left hand blade mounting for complete visibility of cut. Quick and easy, clearly indexed angle cutting adjustment to 45° .

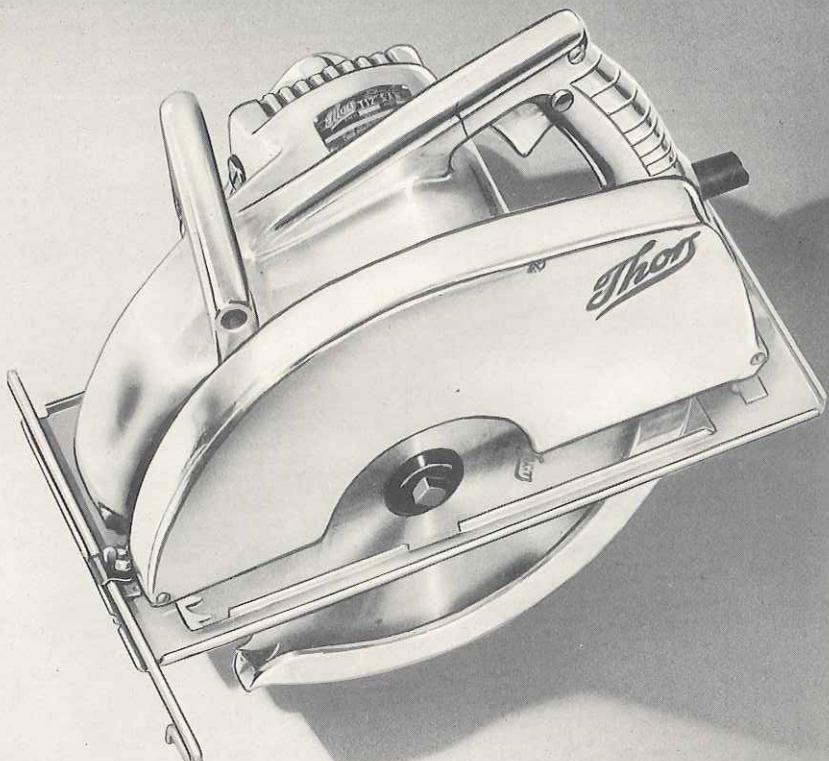
10"-12" Silverline
SAWS



SAFETY SWITCH

no. T10 HEAVY DUTY 10" SAW

blade size.....	10"
speed.....	3000 R.P.M.
bearings.....	all heavy duty ball bearings
max. depth of cut.....	$3\frac{1}{8}$ "
45° depth of cut.....	$2\frac{1}{4}$ "
weight.....	35 lbs.
shipping weight.....	60 lbs.

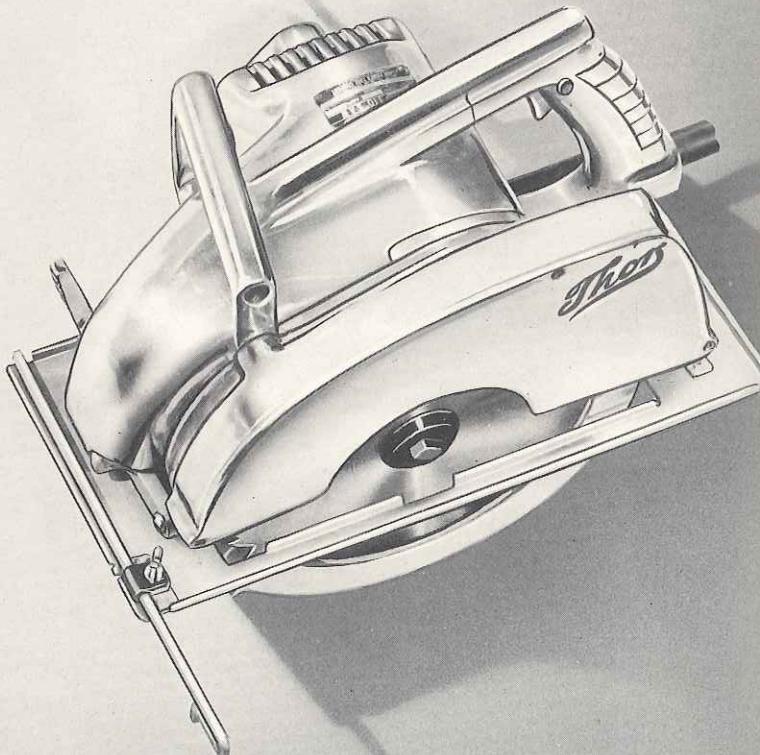


COMPLETE ACCESSORIES
LISTING . . . PAGE 49

no. T12 HEAVY DUTY 12" SAW

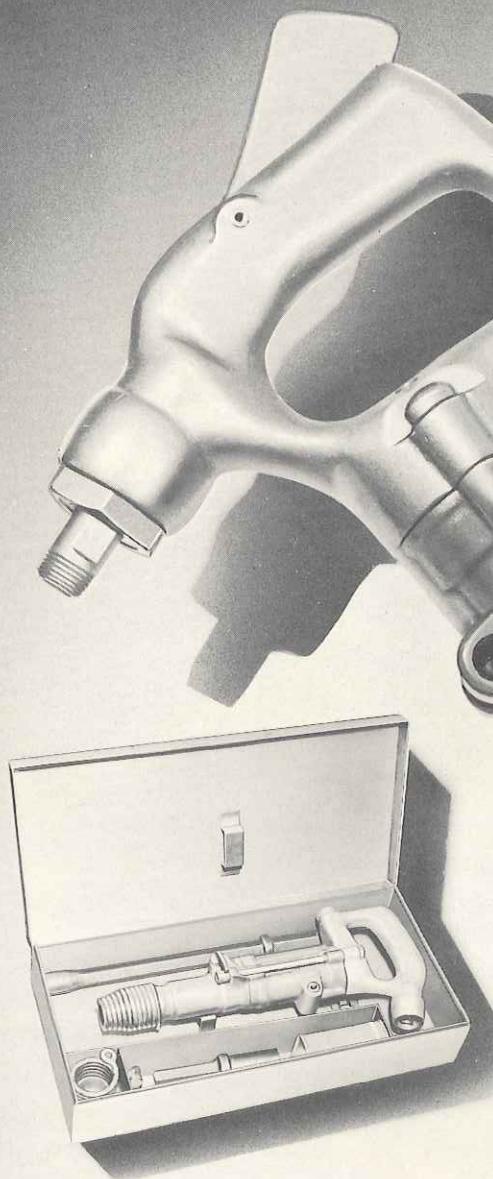
blade size.....	12"
speed.....	3000 R.P.M.
bearings.....	all heavy duty ball bearings
max. depth of cut.....	$4\frac{1}{16}$ "
45° depth of cut.....	$3\frac{1}{4}$ "
weight.....	36 $\frac{1}{2}$ lbs.
shipping weight.....	62 lbs.

All sizes equipped with diamond arbor; one combination blade; 10 feet 3-conductor cable and plug; blade nut wrench, lubricant and steel carrying case.



Air Powered UTILITY HAMMER

A powerful, light weight air hammer with automatic rotation for star drilling. Exclusive "stop rotation" external valve lever converts it instantly to a straight hammering action for chipping, chiseling, light demolition. Wide variety of accessories. A "must" for maintenance departments.



no.15DK Carrying Case Kit

CONTENTS: model 15D air hammer with standard equipment listed above. Plus one 12" under collar drill steel $\frac{7}{8}$ " x $3\frac{1}{4}$ " shank "S" thread for timken bits; 3 timken bits, "S" thread, sizes $1\frac{1}{4}$ ", $1\frac{3}{8}$ " and $1\frac{1}{2}$ "; 1 adaptor for Thor taper shank star drills; 1 adaptor for navy hexagon shank star drills and chisels.

COMPLETE ACCESSORIES
LISTING . . . PAGE 49



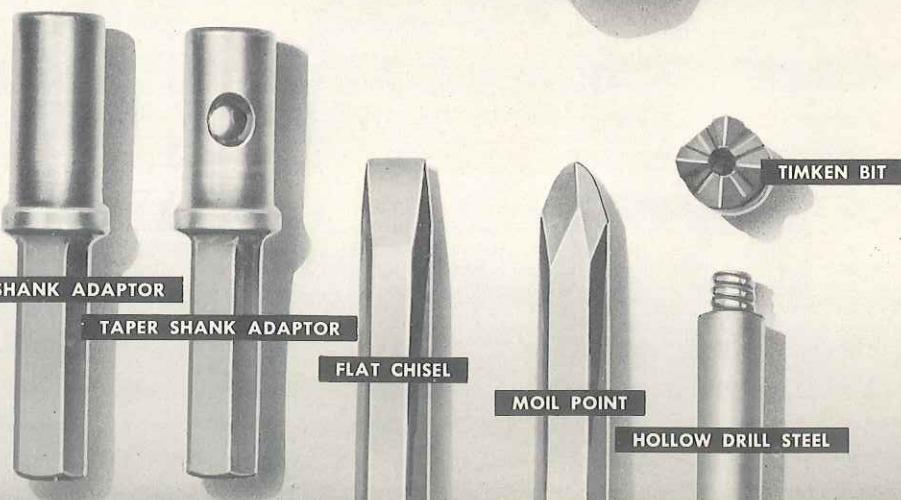
no. 15D AIR HAMMER

drilling capacity	$1\frac{1}{8}$ "
chuck for shank size	$\frac{7}{8}$ " hex. x $3\frac{1}{4}$ "
weight lbs.	14
overall length	$17\frac{1}{4}$ "
size air hose	$\frac{3}{8}$ "
air hose inlet	$\frac{3}{8}$ "

Equipped with chuck for $\frac{7}{8}$ " hex. x $3\frac{1}{4}$ " long shank accessories. Screw-on bee-hive retainer for collared shank accessories; 3 allen wrenches; one $\frac{1}{2}$ pint can lubricating oil; "D" type handle with outside trigger; packed in cardboard box.

OPTIONAL: Latch retainer, "T" handle.

Extra equipment: Chuck no. 88461, retainer no. C-15007 to take the Thunderbolt Bit made by New England Carbide Tool Co.



Powerful electric hammer speeds all types of star drilling, chipping, chiseling in stone, wood or metal. Universal motor permits use from any electric outlet (115 volts standard, 220 and other voltage motors also available). Rubber-cushioned "sling-shot" drive amplifies power stroke, absorbs shock to motor and operator.

Universal Electric
HAMMER

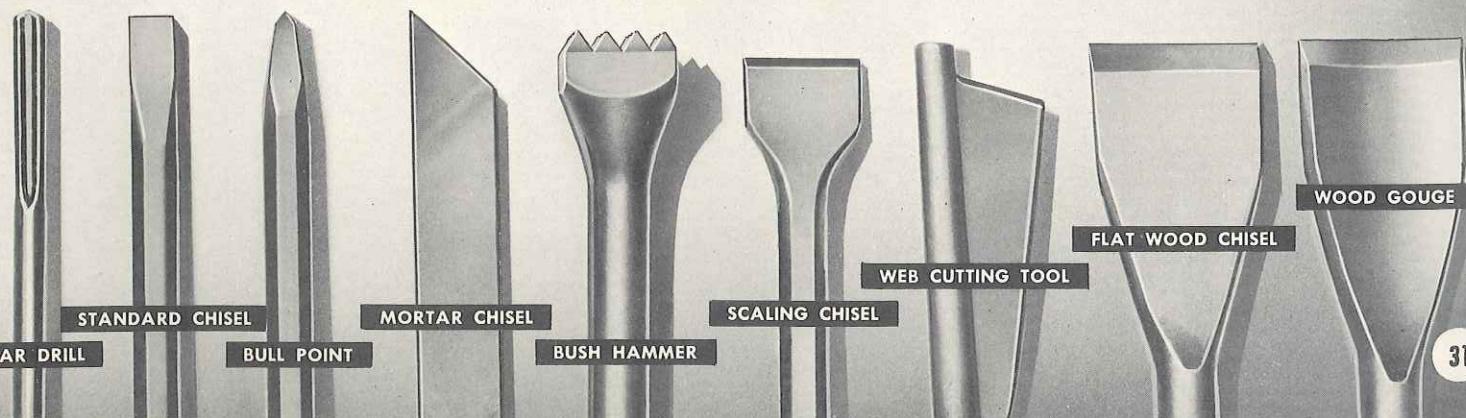
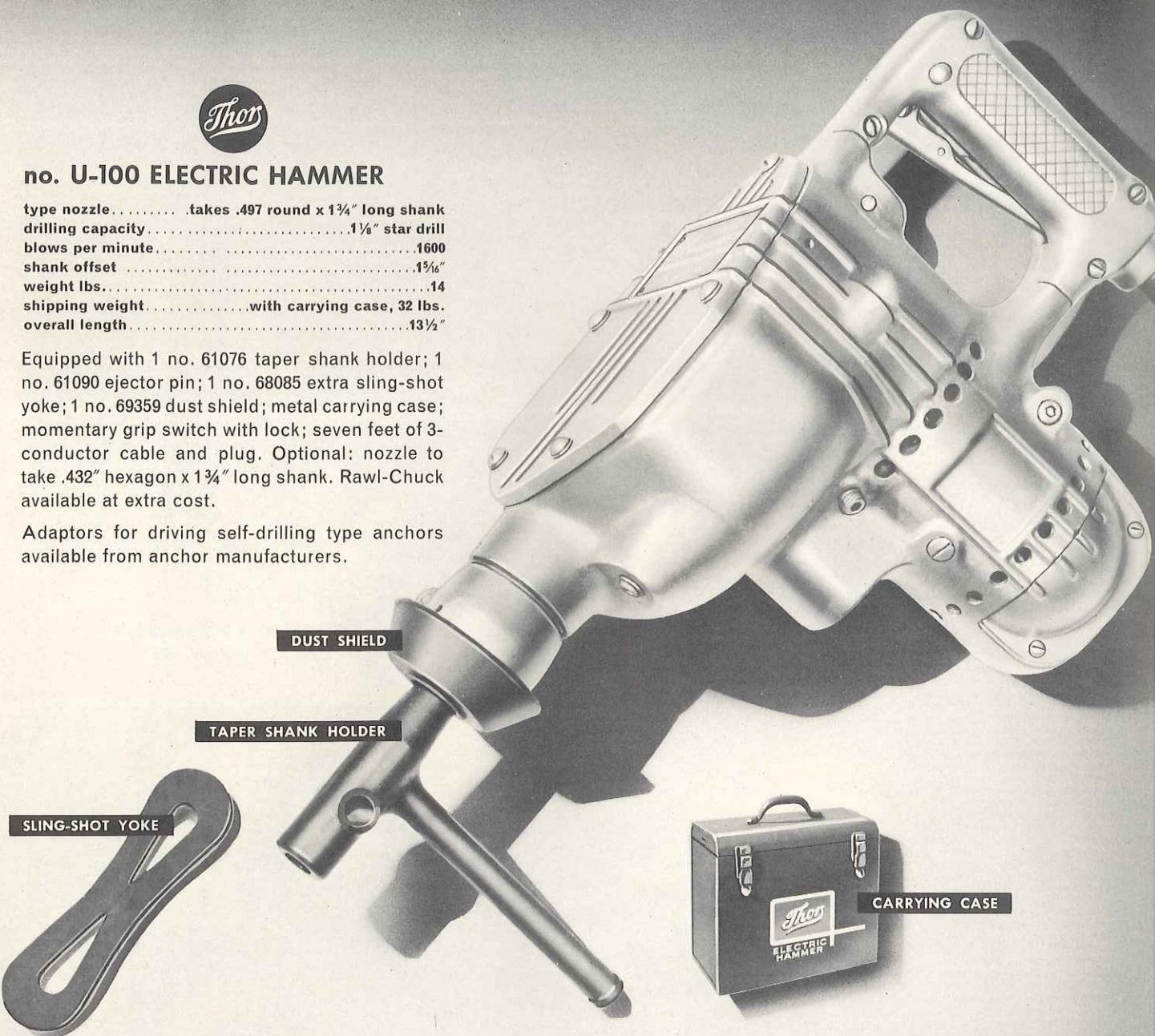


no. U-100 ELECTRIC HAMMER

type nozzle	takes .497 round x 1 $\frac{1}{4}$ " long shank
drilling capacity	1 $\frac{1}{8}$ " star drill
blows per minute	1600
shank offset	1 $\frac{1}{16}$ "
weight lbs.	14
shipping weight	with carrying case, 32 lbs.
overall length	13 $\frac{1}{2}$ "

Equipped with 1 no. 61076 taper shank holder; 1 no. 61090 ejector pin; 1 no. 68085 extra sling-shot yoke; 1 no. 69359 dust shield; metal carrying case; momentary grip switch with lock; seven feet of 3-conductor cable and plug. Optional: nozzle to take .432" hexagon x 1 $\frac{1}{4}$ " long shank. Rawl-Chuck available at extra cost.

Adaptors for driving self-drilling type anchors available from anchor manufacturers.



STAR DRILL

STANDARD CHISEL

BULL POINT

MORTAR CHISEL

BUSH HAMMER

SCALING CHISEL

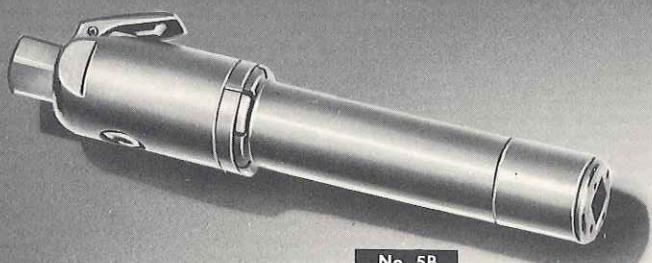
WEB CUTTING TOOL

FLAT WOOD CHISEL

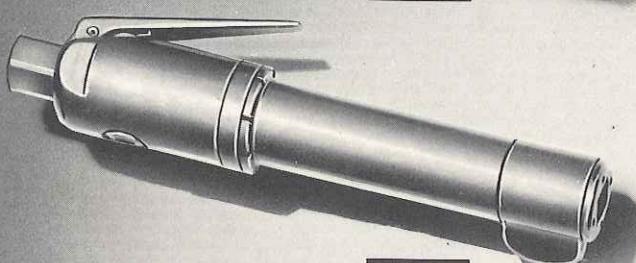
WOOD GOUGE

**Air Powered
WELD FLUX
SCALERS**

Powerful, light-weight air hammers for cleaning up weld flux and splatter, paint scraping, rust removal, wood pattern and other wood chiseling, removing cores from light castings and other applications. Quick change safety retainer, square chisel nozzle assure safe, sure operation. Extra sturdy construction.



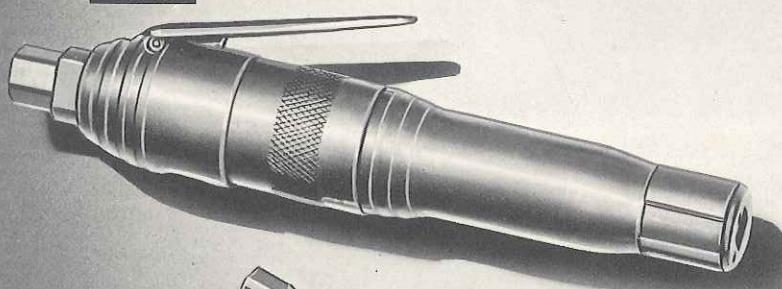
No. 5B



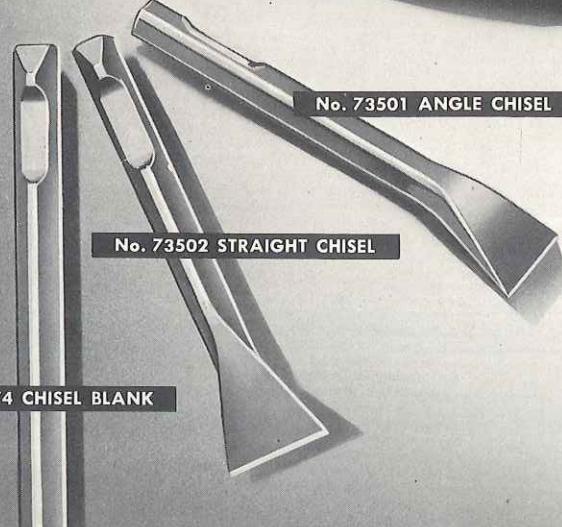
No. 5L



No. 7B



No. 73501 ANGLE CHISEL



No. 73502 STRAIGHT CHISEL

No. 73574 CHISEL BLANK

Cat- alog No.	Type Valve	Type Throt- tle	Stroke	Lgth. O. A.	Wght. Lbs.	Air Inlet Pipe Thrd.	Min. Hose Size
5B	Rocker Plate	Button	1/16"	7 3/4"	2 1/8	1/4"	1/4"
5L	Rocker Plate	Lever	1/16"	7 3/4"	2 1/8	1/4"	1/4"
5P	Rocker Plate	Push	1/16"	7 3/4"	2 1/8	1/4"	1/4"
7B	Plate	Button	3/4"	10 1/4"	4	1/4"	3/8"
7L	Plate	Lever	3/4"	10 1/4"	4	1/4"	3/8"
7P	Plate	Push	3/4"	10 1/4"	4	1/4"	3/8"

All sizes equipped with 1/2" square nozzle; quick change retainer; no. 73501 (6 1/2" length) angle chisel.

Optional: no. 73502 (6 1/2" length) straight chisel or no. 73574 (7" length) chisel blank.

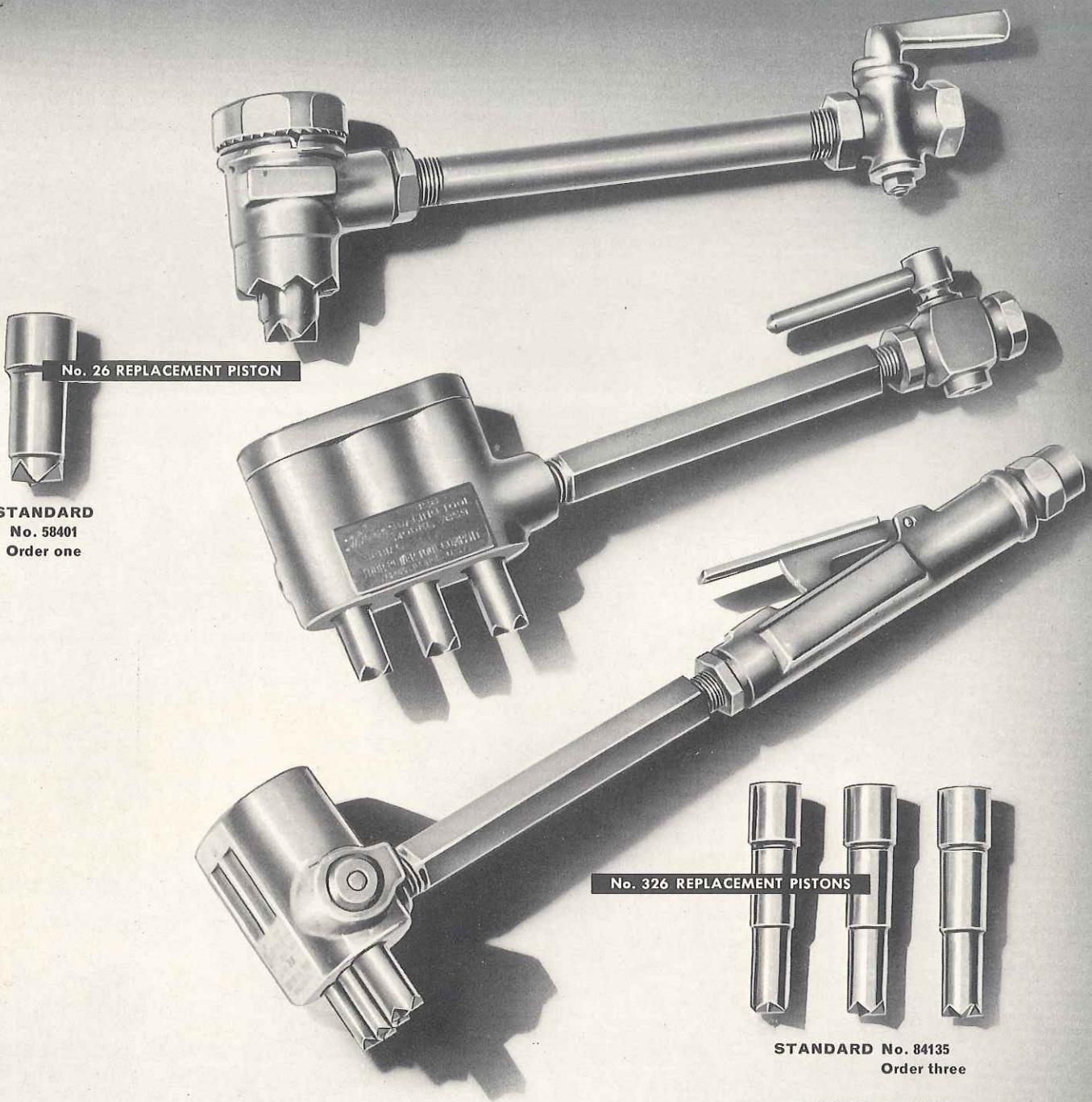


**COMPLETE ACCESSORIES
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Widely used for removing rust, scale and paint, these right-angle air hammers feature rugged simplicity of design, operation and maintenance. Cutting edges are machined directly into pistons, which are hardened and ground for top operating efficiency. Replacement pistons easily installed. Stellite pistons available for No. 326 Scaler.

Air Powered
**SCALING
TOOLS**



Catalog No.	Number of Pistons	Stroke	Length Overall	Length of Cross-head	Weight Lbs.	Air Inlet Pipe Thread	Minimum Hose Size
26**	1	1"	14"	3 1/2"	4 1/4	1/2"	1/2"
326**	3	5/16"	*10 3/4" (side throttle) *13 1/8" (end throttle)	4 7/8"	7 1/2	3/8"	1/2"

*Throttles can be assembled as side or end. Removable dead handle standard on no. 326.

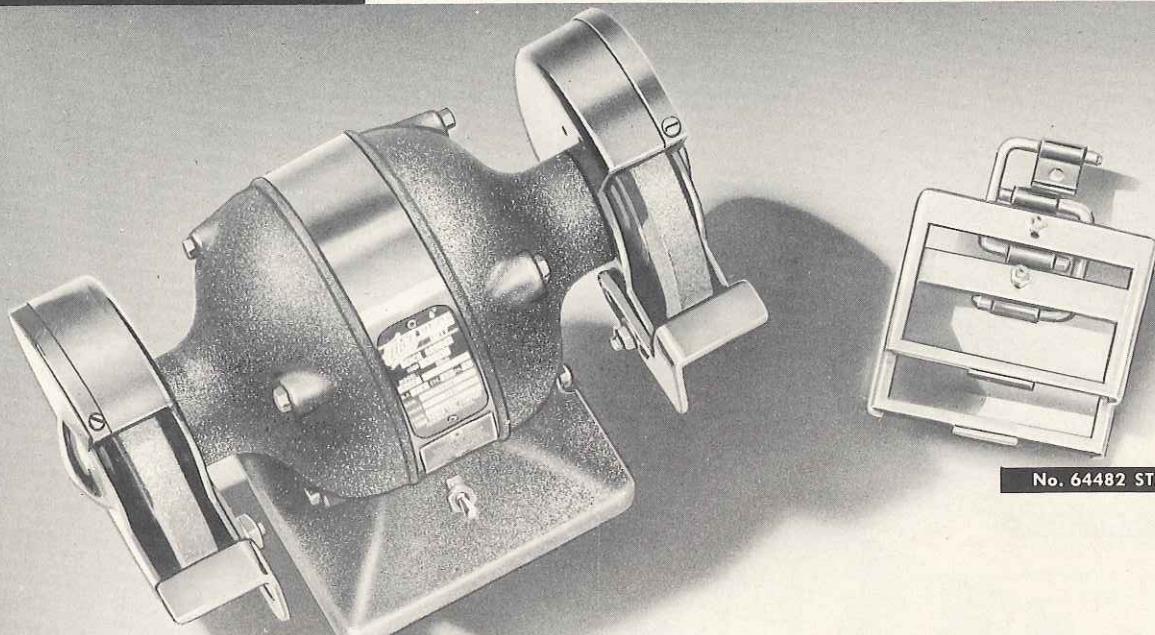
**Equipped standard with lever cock throttle; no. 59299 lever type throttle is extra cost equipment.

Stellite pistons for no. 326 are extra cost equipment.

6" Wheel Standard Duty

BENCH GRINDER

Standard duty industrial type bench grinder in 6" x $\frac{1}{2}$ " wheel capacity. Split phase motor for high starting torque, high running efficiency. Ideal for sharpening tools and other grinding applications in the shop. Equipped for mounting standard or illuminated eye-shields, both available at extra cost.



No. 64482 STANDARD EYE SHIELD

no. B634 STANDARD DUTY BENCH GRINDER

AC Motors single phase 115 or 220 volts, 50 or 60 cycles as specified.

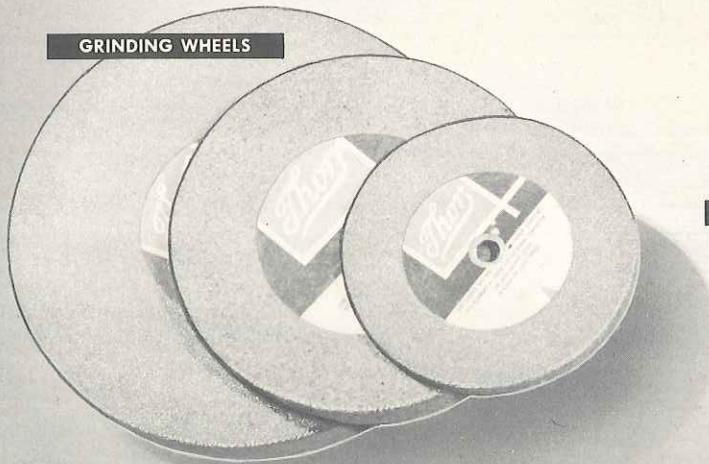
wheel size.....	6" x $\frac{1}{2}$ "
motor rating.....	$\frac{1}{4}$ h.p.
spindle thread.....	$\frac{1}{2}$ "
(60 cycle).....	3450 r.p.m.
(50 cycle).....	2850 r.p.m.
weight.....	35 lbs.
shipping weight.....	45 lbs.
length overall.....	14"
height overall.....	9"
width overall.....	7 $\frac{1}{2}$ "
bench space (base).....	7 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ "

Equipped with two wheel guards; two adjustable tool rests; two grinding wheels (one coarse, one fine). Toggle switch; ten feet of 3-conductor cable and plug.

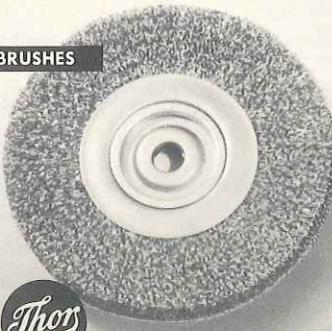


COMPLETE ACCESSORIES
LISTING ... PAGE 49

GRINDING WHEELS



WIRE BRUSHES



BUFFING WHEELS



The complete line of heavy duty all ball bearing bench grinders for every industrial requirement. Spindle and guard design provides plenty of clearance for all types of grinding, buffing and wire brush work. Adjustable tool rests. Heavy duty switches. Standard or illuminated eye shields available at extra cost. Bench Grinder stand available.

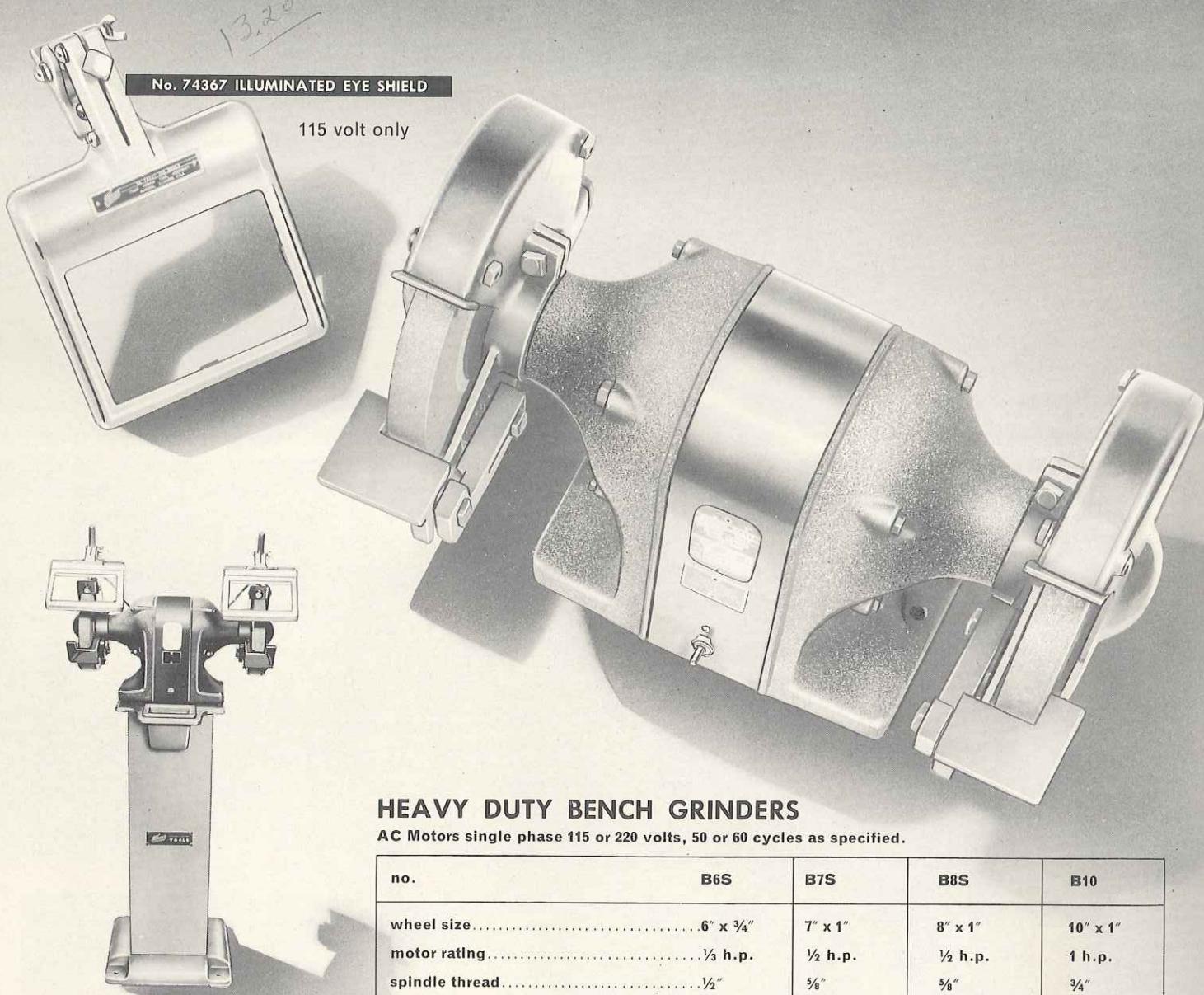
6"-7"-8"-10" Wheel

Heavy Duty

BENCH GRINDER

No. 74367 ILLUMINATED EYE SHIELD

115 volt only



no. BGS BENCH GRINDER PEDESTAL

For 6", 7", 8", and 10" bench grinders.

height 31 1/4"
base 14" x 14"
weight 56 1/2 lbs.
shipping weight 62 lbs.

Equipped with detachable water cup; 2 each attachment bolts, nuts and washers. Base has bolt holes for rigid attachment to floor.

HEAVY DUTY BENCH GRINDERS

AC Motors single phase 115 or 220 volts, 50 or 60 cycles as specified.

no.	B6S	B7S	B8S	B10
wheel size.....	6" x 3/4"	7" x 1"	8" x 1"	10" x 1"
motor rating.....	1/3 h.p.	1/2 h.p.	1/2 h.p.	1 h.p.
spindle thread.....	1/2"	5/8"	5/8"	3/4"
(60 cycle).....	3450 r.p.m.	3450 r.p.m.	3450 r.p.m.	1750 r.p.m.
(50 cycle).....	2850 r.p.m.	2850 r.p.m.	2850 r.p.m.	1425 r.p.m.
weight.....	58 1/2 lbs.	69 lbs.	71 lbs.	137 lbs.
shipping weight.....	69 lbs.	81 lbs.	83 lbs.	153 lbs.
length overall.....	19"	20"	20"	24"
height overall.....	11 1/4"	11 3/4"	12 1/4"	15 1/4"
width overall.....	9 1/4"	11"	11"	14"
bench space (base).....	10" x 6 5/8"	10 15/16" x 6 5/8"	10 15/16" x 6 5/8"	13 1/2" x 9 5/8"

ADDITIONAL MOTOR TYPES

In addition to the listings above, all Thor Bench Grinders shown on this page can be furnished at extra cost wired for the following types of current: Three Phase A.C. 50 or 60 cycles, 220 or 440 volts; 25 cycle A.C. Single Phase, 115, 220 or 440 volts.

All grinders listed above equipped with two wheel guards, two adjustable tool rests, two grinding wheels (one coarse, one fine), toggle switch, 10 feet of 3-conductor cable and plug. (B10 has wired outlet box instead of the 10 ft. 3-conductor cable and plug).

Tuck Point GRINDER

Powerful, high-speed universal electric grinder designed specifically for removing old mortar in tuck-pointing operations. Heavy duty motor maintains speed under load. Extra large diameter guard permits safe use of 8" wheels for depths of cut up to 2". Ideal for speeding tuck-pointing operations with universally available 60 cycle current.



no. EN64 TUCK POINTING GRINDER

wheel size.....	.8" x $\frac{1}{8}$ "
spindle thread.....	$\frac{5}{8}$ " x 11
speed.....	4000 R.P.M.
weight.....	15 $\frac{1}{4}$ lbs.
shipping weight.....	23 lbs.
length overall.....	23 $\frac{3}{4}$ "

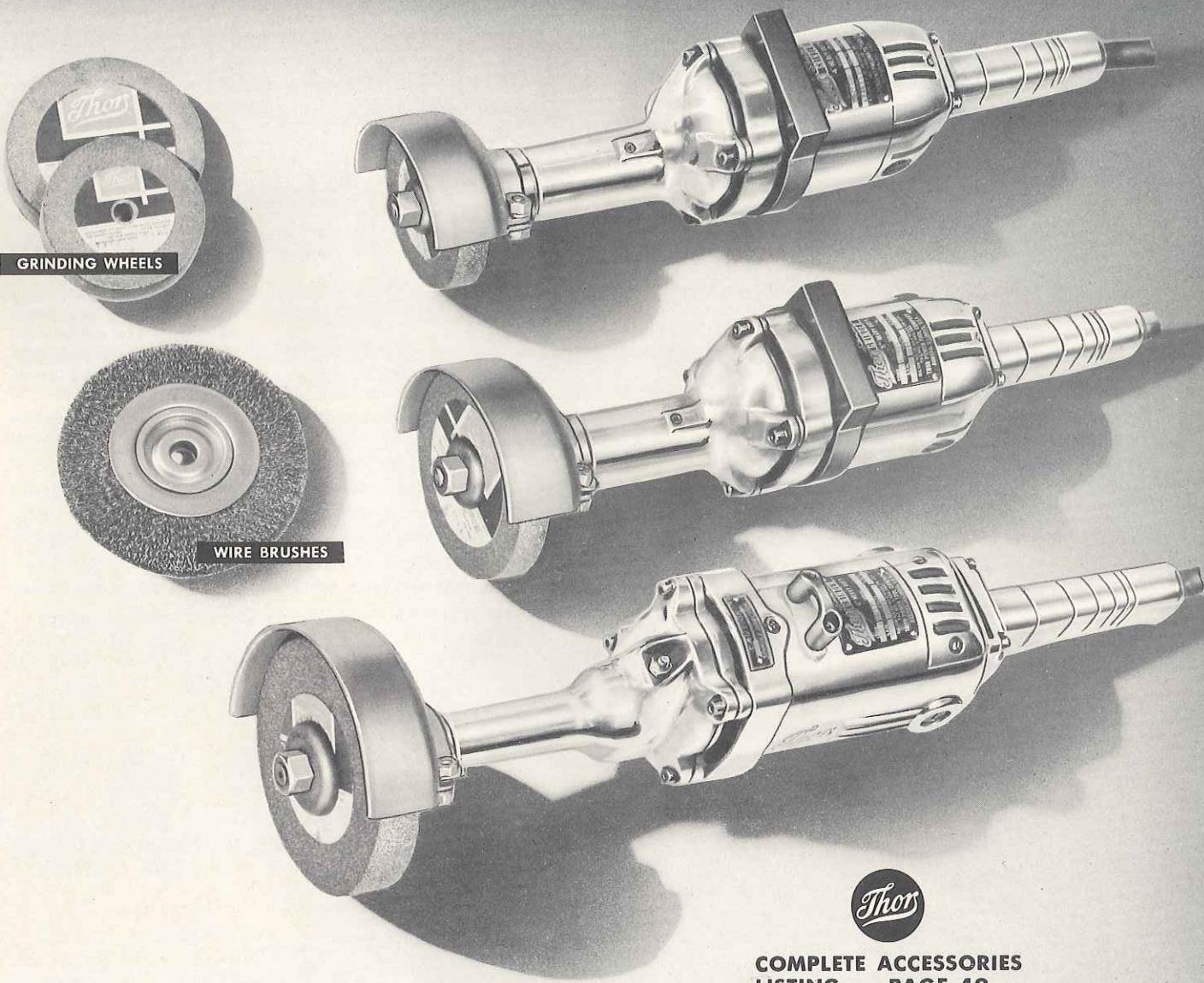
Equipped with cut-off type wheel; adjustable wheel guard; straight handle with momentary trigger switch and locking pin; seven feet of 3-conductor cable and plug; suspension hook. If specified, rubber tool rest will be furnished in place of suspension hook at no extra charge.



TUCK POINTING WHEELS
No. 22210 8" x $\frac{1}{8}$ " cut-off type, $\frac{5}{8}$ " hole
*No. 22209 8" x $\frac{1}{8}$ " flexible type, $\frac{5}{8}$ " hole
*Abrasive impregnated cloth

SILVERLINE all ball bearing high-powered portable electric grinders. Large rugged motors minimize speed drop under load for more efficient grinding, longer wheel life. Extra large spindle support minimizes transmission of grinding vibrations to motor for extra long tool life. Light in weight, perfectly balanced for high-production operation.

**4"-5"-6" Straight
GRINDERS**



**COMPLETE ACCESSORIES
LISTING . . . PAGE 49**

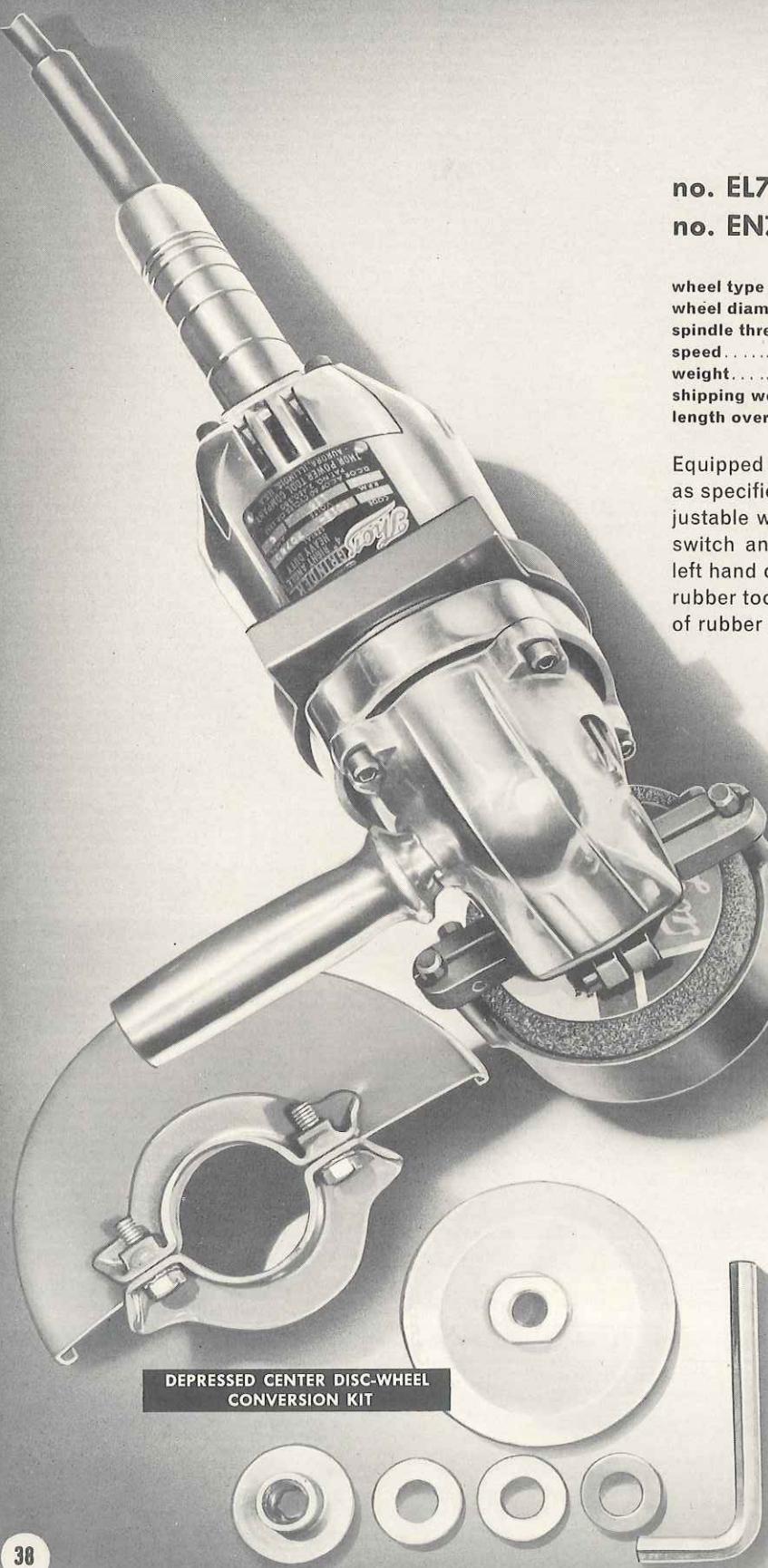
STRAIGHT GRINDERS

Catalog No.	Wheel Size	Spindle Thread	Speed R.P.M.	Weight Lbs.	Ship. Wt. Lbs.	Length Overall
EL60	4" x 3/4"	1/2" x 13	6000	10	15	18 3/4"
EL62	5" x 3/4"	1/2" x 13	4500	10 1/4	15	18 3/4"
EN62	6" x 1"	5/8" x 11	4000	15 1/4	23	23 3/4"

Equipped with one general purpose grinding wheel as specified in table above; adjustable wheel guard; straight handle with momentary trigger switch and locking pin; seven feet of 3-conductor cable and plug. EL60 and EL62 are equipped standard with rubber tool rest around tool. EN62 equipped standard with suspension hook. If specified, rubber tool rest will be furnished in place of suspension hook at no extra charge.

4"-6" Cup Wheel ANGLE GRINDERS

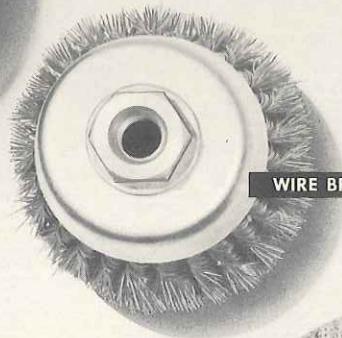
SILVERLINE all ball bearing cup wheel grinders. Heavy duty motors provide abundant power for surface grinding of metal and stone. Rugged right-angle housing and gear system provide unequalled durability and long life. Equipped standard with cup wheel, adjustable wheel guard and removable side-handle for right or left hand operation.



no. EL72 4" CUP GRINDER no. EN72 6" CUP GRINDER

	EL72	EN72
wheel type	cup	cup
wheel diameter	4"	6"
spindle thread	5/8" x 11	5/8" x 11
speed	4500 R.P.M.	4500 R.P.M.
weight	8 1/2 lbs.	14 1/4 lbs.
shipping weight	.13 lbs.	.22 lbs.
length overall	13 1/2"	17"

Equipped with one general purpose flared cup grinding wheel as specified in table above; 5/8" threaded spindle with lock; adjustable wheel guard; straight handle with momentary trigger switch and locking pin; detachable side handle for right or left hand operation; seven feet of 3-conductor cable and plug; rubber tool rest. Optional no. EN72, suspension hook in place of rubber tool rest at no extra charge.



WIRE BRUSHES



GRINDING WHEELS

DEPRESSED CENTER DISC-WHEEL
CONVERSION KIT

SILVERLINE all ball bearing right-angle grinders equipped with "depressed center wheels" (cloth reenforced grinding discs) permit grinding with surface or edge of wheel, for rapid removal of weld flux, gates and risers and other metal protuberances. Powerful motors maintain speed under load, rugged right-angle housing and gears assure long tool life.

7"-9" Disc Wheel

ANGLE GRINDERS

no. EN71 7" DEPRESSED CENTER GRINDER no. EN79 9" DEPRESSED CENTER GRINDER

EN71

wheel type dep. cen.
wheel diameter 7"
spindle thread $\frac{5}{8}$ " x 11
speed 6000 R.P.M.
weight 14 $\frac{1}{4}$ lbs.
shipping weight 22 lbs.
length overall 17"

EN79

dep. cen.
9"
 $\frac{5}{8}$ " x 11
4500 R.P.M.
14 $\frac{1}{4}$ lbs.
22 lbs.
17"

Equipped with guard and backing plate assembly; $\frac{5}{8}$ " threaded spindle with lock; straight handle with momentary trigger switch and locking pin; detachable side handle for right or left hand operation; seven feet of 3-conductor cable and plug; rubber tool rest. Optional no. EN79, suspension hook in place of rubber tool rest at no extra charge.



COMPLETE ACCESSORIES
LISTING ... PAGE 49



THOR POWER TOOL COMPANY CHICAGO, ILLINOIS

Orbital
SANDER

Block-type sander of exceptional size, speed, and capacity for heavy duty production use on wood or metal. $4\frac{1}{2}$ " x 9" Sanding area. Universal motor for maximum power and long life. Ball bearing construction. $\frac{3}{16}$ " orbit duplicates motion of hand sanding ten to twenty times as fast. Quick and easy abrasive paper change.

no. C45X9 ORBITAL SANDER

sanding area.....	$4\frac{1}{2}$ " x 9"
full load speed.....	5000 R.P.M.
orbit.....	$\frac{3}{16}$ "
paper size.....	$4\frac{1}{2}$ " x 11"
weight.....	7 $\frac{3}{4}$ lbs.
shipping wt.....	10 lbs.
length overall.....	11"

Equipped with open handle and slide switch; three-position dead handle; 10 feet 3-conductor cable and plug; one 1/0-80 grit sandpaper cover.



**COMPLETE ACCESSORIES
LISTING . . . PAGE 49**

LAMBSWOOL PAD

NEOPRENE PAD

SANDPAPER



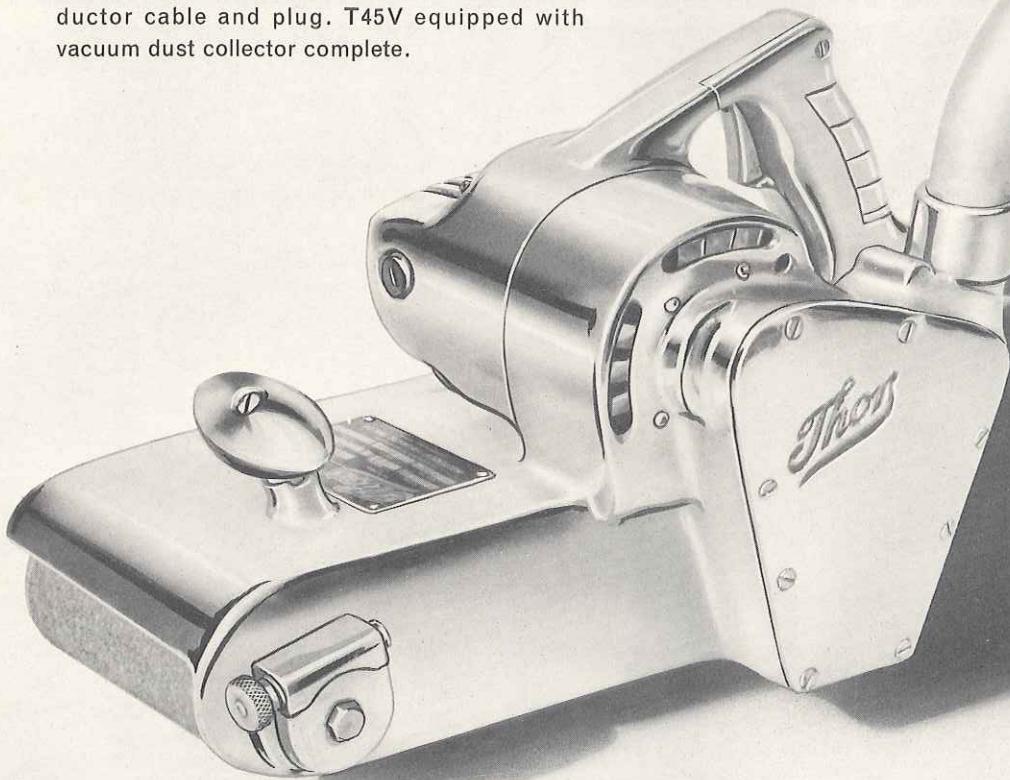
SILVERLINE Belt Sander provides maximum power for levelling off rough surfaces, removing paint and other heavy-duty abrasive applications. Quick belt change, exclusive tracking device assures true-running belt for efficient operation, long belt and tool life. Available with dust collecting blower and bag system.

Belt
SANDER

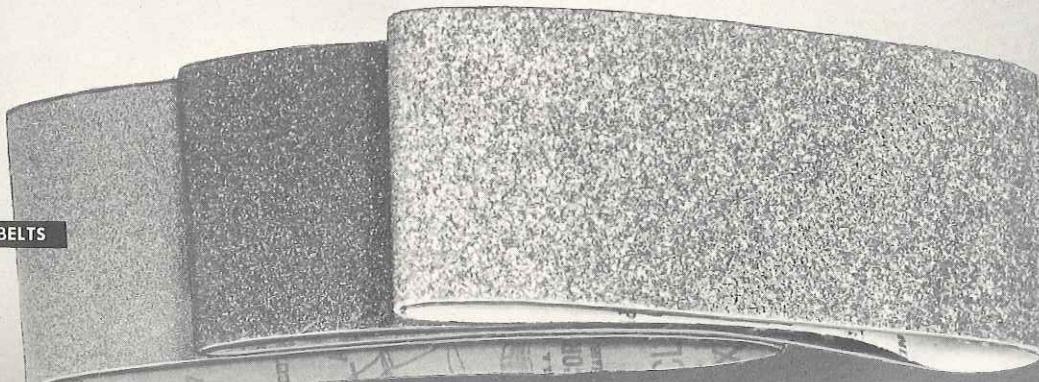
no. T45 4½" BELT SANDER
no. T45V 4½" BELT SANDER

	T45	T45V (With Vacuum Dust Collector)
belt size .....	.4½" x 26"	4½" x 26"
belt speed	1800 F.P.M.	1800 F.P.M.
size .....	.6¾" x 14½" x 9¼"	6¾" x 14½" x 9¼"
weight	20½ lbs.	22½ lbs.
shipping wt. ....	.26 lbs.	27 lbs.

Equipped with grip handle; momentary trigger switch; one medium grade belt; 10 feet of 3-conductor cable and plug. T45V equipped with vacuum dust collector complete.



SANDING BELTS



7"-9" SilverLine

DISC SANDERS

SILVERLINE all-ball-bearing disc sanders. Powerful motors maintain speed under load for maximum abrasive efficiency. Spindle lock for quick disc change to encourage use of fresh and correct abrasives for all sanding applications. Rugged right-angle gearing assures long on-the-job service, little or no maintenance costs.

STANDARD AND HEAVY DUTY DISC SANDERS

no.	EL82	EN82	EN84	EN87	EN89
capacity	7" std.	7" h.d.	7" h.d.	9" h.d.	9" h.d.
speed R.P.M.	4500	4500	5500	4500	5500
weight lbs.	8 1/2	14 1/4	14 1/4	14 1/4	14 1/4
shipping wt. lbs.	13	21	21	21	21
length	13 1/2"	17"	17"	17"	17"

Equipped with $\frac{5}{8}$ " threaded spindle with lock; momentary trigger switch with locking pin; removable side handle for use on either side; rubber tool guard; flexible rubber backing pad; three assorted sanding discs; seven feet of 3-conductor cable and plug.

Optional: suspension hook in place of rubber guard on EN82, EN84, EN87 and EN89 if specified.

SANDING DISCS

BACKING PADS

DISC TRIMMER



SILVERLINE all ball bearing portable electric polishers. Famous for power-under-load, maintenance of correct speed for maximum polishing results with either wax or chemical polishing agents. Rubber bumper guard protects tool and work. Removable side handle for right or left hand operation.

7" SilverLine

POLISHERS

STANDARD AND HEAVY DUTY POLISHERS

no.	EL91	EL92	EN92
capacity.....	7" std.	7" std.	7" h.d.
speed R.P.M.	2000	1400	1400
weight lbs.	9	9	15 1/4
shipping wt. lbs.	14	14	20
length overall.....	14 1/4"	14 1/4"	17 3/4"

No. EL91 equipped with no. 66720 pneumatic backing pad and no. 74329 drawstring polishing bonnet. Nos. EL92 and EN92 equipped with no. 22483 flexible rubber backing pad and no. 81738 drawstring polishing bonnet.

ALL POLISHERS equipped with $\frac{5}{8}$ " threaded spindle; momentary trigger switch with locking pin; removable side handle for use on either side of tool; rubber tool guard; seven feet of 3-conductor cable and plug.

Optional: Suspension hook in place of rubber guard on EN92, if specified.

EL91 HIGH SPEED POLISHER engineered specifically for high speed polishing with pneumatic pad . . . eliminating possibility of burning or lifting paint.



COMPLETE ACCESSORIES
LISTING . . . PAGE 49

POLISHING BONNETS

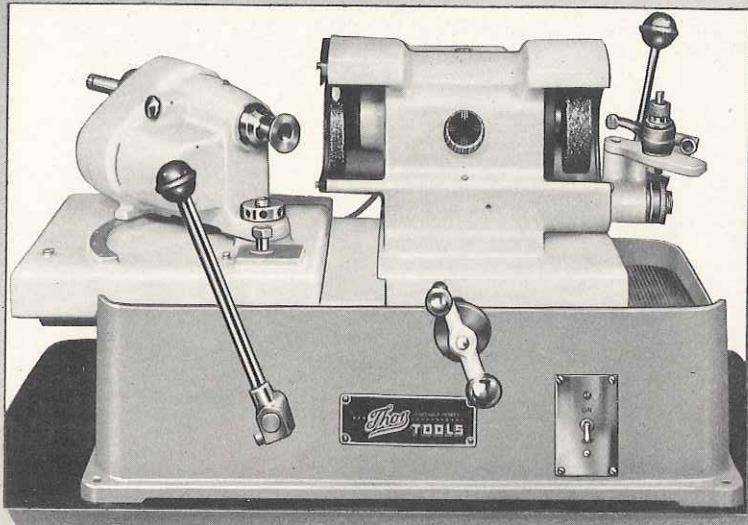
RUBBER BACKING PAD

PNEUMATIC BACKING PAD

VALVE REFACERS

Professional wet type valve refacing equipment for the service shop; real machine tools assuring factory-new precision valve refinishing. Moving heads mounted on hardened and precision ground slide rods. Quick acting valve head chuck. 5" grinding wheel delivers most efficient surface grinding speed for better valve finish.

no. 300 WITH BUTT GRINDING FIXTURE



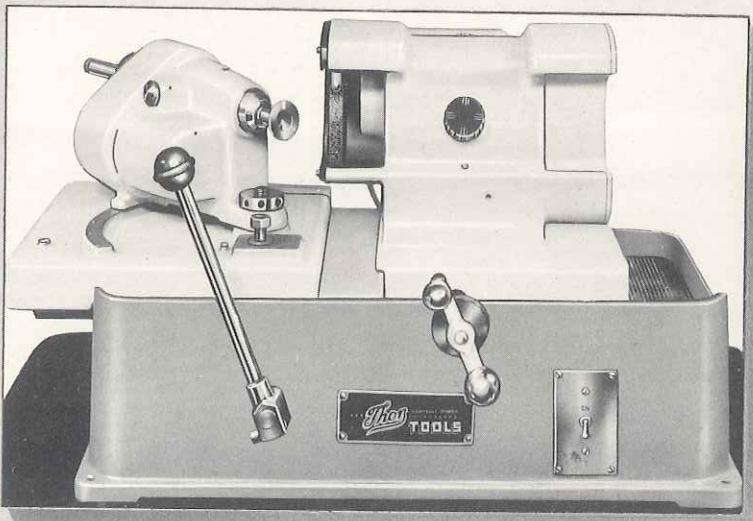
angle capacity	0° to 90°
base dimensions	17" x 24½"
grinding head motor	½ H.P.
weight	130 lbs.
shipping weight	165 lbs.

Equipment includes collet no. 74499, $\frac{5}{16}$ " to $\frac{3}{16}$ " capacity; no. 73533 cup wheel; no. 85767 offset grinding wheel; micrometer feed butt grinding fixture; wheel dressing stand and dresser; one pint can concentrated Thor Coolant no. 20316; splash guard; seven feet 3-conductor cable and plug.

Optional: no. 74500 collet $\frac{1}{2}$ " to $1\frac{1}{16}$ " capacity in place of no. 74499 collet.

Extra cost equipment: no. 80469 collet $\frac{1}{4}$ " to $\frac{7}{16}$ " capacity; no. 87907 90° wheel dressing bracket assembly; no. 74474 lamp assembly; no. 74658 depth gauge.

no. 299 WITHOUT BUTT GRINDING FIXTURE



angle capacity	0° to 90°
base dimensions	17" x 24½"
grinding head motor	½ H.P.
weight	120 lbs.

Equipment includes collet no. 74499, $\frac{5}{16}$ " to $\frac{3}{16}$ " capacity; offset grinding wheel no. 85767; wheel dressing stand and dresser; one pint can concentrated Thor coolant no. 20316; splash guard; seven feet 3-conductor cable and plug.

Optional: no. 74500 collet $\frac{1}{2}$ " to $1\frac{1}{16}$ " capacity in place of no. 74499 collet.

Extra cost equipment: no. 80469 collet $\frac{1}{4}$ " to $\frac{7}{16}$ " capacity; no. 87972 attachment for grinding rocker arms and tappets on valve refacer wheel; no. 87907 90° wheel dressing bracket assembly; no. 74474 lamp assembly; no. 299-300 micrometer feed butt-grinding assembly for converting no. 299 valve refacer to no. 300 valve refacer; no. 74658 depth gauge.

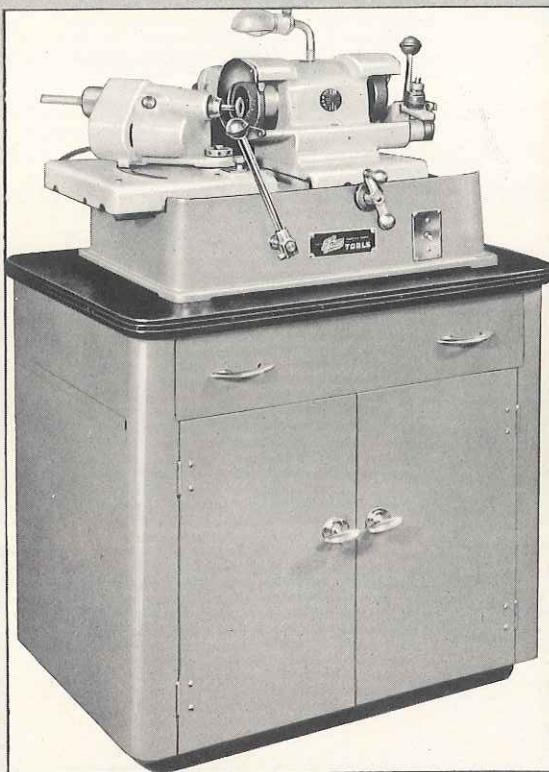
VALVE SEAT GRINDING WHEELS



CHICAGO, ILLINOIS

Micrometer indicator dial setting, permits positive, close tolerance control of grinding . . . accurate gauging of stock removal from valve face and insures mirror finish. Totally enclosed coolant channels eliminate tubing . . . adjustable nozzle provides directional flow at wheel face. Valve head pivots on graduated table for grinding any angle 0° to 90°.

VALVE SHOPS



COMPLETE ACCESSORIES LISTING . . . PAGE 49

SERIES 300 VALVE SHOPS INCLUDE No. 300 VALVE REFACER

Sturdy steel fitted cabinet No. 74328 equipped with casters; No. SG Heavy Duty Valve Seat Grinder; No. 74241 Wheel Dresser; Two Wheel Holders; No. 74666 Valve Refacer Cover; No. 74474 lamp assembly.

*EQUIPMENT

Valve Shop No. No. of Wheels... No. of Pilots...	With Two Roller Bearing Wheel Holders No. 25584		With Two Plain Bearing Wheel Holders No. 25582	
	322A 8 4	302A — —	311A 8 4	301A — —

*WHEELS and PILOTS

FURNISHED WITH SERIES 299 AND 300 VALVE SHOPS

45° FINISHING WHEELS

1—1½"	No. 74159
1—1⅔"	No. 74160
1—1¾"	No. 74161
1—1⅜"	No. 74162

30° FINISHING WHEELS

1—1½"	No. 74163
1—1¾"	No. 74164

45° ROUGHING WHEELS

1—1½"	No. 74165
1—1¾"	No. 74166

EXPANDING PILOTS

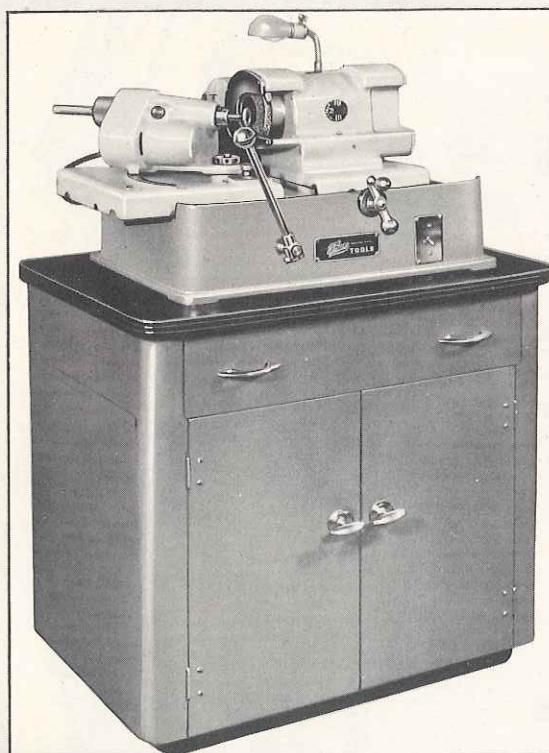
1—5/16"	No. 25593
1—1½"	No. 25599
1—3/8"	No. 25601

PLUG PILOTS

1—1½"	No. 25623
(for V8 85)	

PILOT WRENCH

1—	No. 80984
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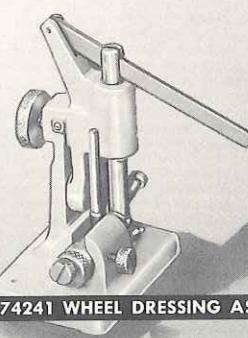
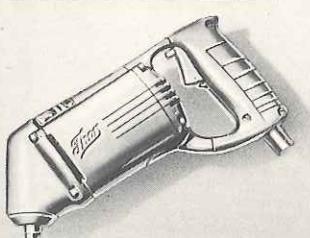
*EQUIPMENT

Valve Shop No. No. of Wheels... No. of Pilots...	With Two Roller Bearing Wheel Holders No. 25584		With Two Plain Bearing Wheel Holders No. 25582	
	2922A 8 4	2902A — —	2911A 8 4	2901A — —

SERIES 299 VALVE SHOPS INCLUDE No. 299 VALVE REFACER

Sturdy steel fitted cabinet No. 74328 equipped with casters; No. SG Heavy Duty Valve Seat Grinder; No. 74241 Wheel Dresser; Two Wheel Holders; No. 74666 Valve Refacer Cover; No. 74474 Lamp Assembly.

SG VALVE SEAT GRINDER

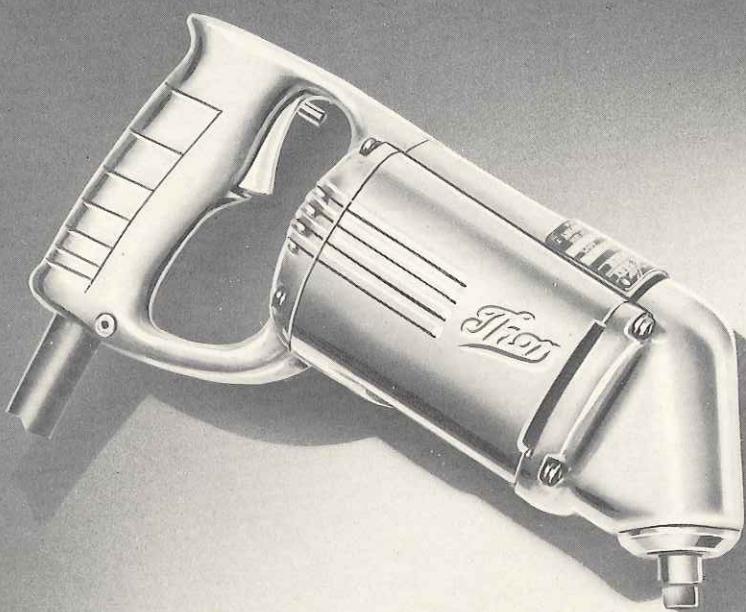


No. 74241 WHEEL DRESSING ASSEMBLY



Heavy Duty
VALVE SEAT
GRINDERS

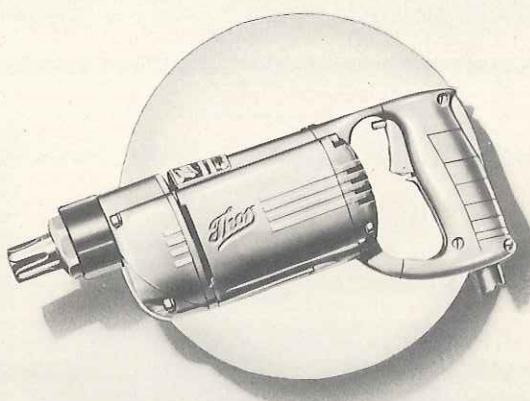
Rugged, light weight, all-ball-bearing drivers are available in a complete range of speeds and capacities covering every valve seat grinding requirement. Heavy duty drivers available in two speeds meeting safety requirements for their respective wheel size capacities. 55° spindle for convenient operation. Cushioned spindle action for perfect finishes.



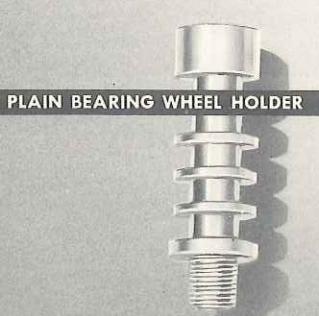
heavy duty
VALVE SEAT GRINDERS

no.	SG	SGY
speed.....	12,000 R.P.M.	10,000 R.P.M.
wheel capacity.....	.2" dia.	2½" dia.
weight.....	5½ lbs.	5½ lbs.
shipping weight.....	8 lbs.	8 lbs.
length overall.....	10¾"	10¾"
spindle offset.....	1"	1"

Equipped with grip handle; momentary trigger switch and locking pin; 7 feet 3-conductor cable and plug.



**Extra Heavy Duty Valve Seat Grinders,
SGH and SGHY for driving up to 4" wheels
also available.**



PLAIN BEARING WHEEL HOLDER



ROLLER BEARING WHEEL HOLDER

SHORT ROLLER BEARING
WHEEL HOLDER



BALL ADAPTOR

ADAPTOR BUSHING

Thor Valve Seat Grinding Kits are built around all-ball-bearing Thor Valve Seat Grinders and individually matched components specifically engineered for maximum efficiency in seat grinding operations. Ball-bearing wheel holder kits are recommended for best results, longer service. All kits are expandable and may be added to at any time.

Heavy Duty
**VALVE SEAT
GRINDER KITS**

no. 22A Valve Seat Grinder KIT

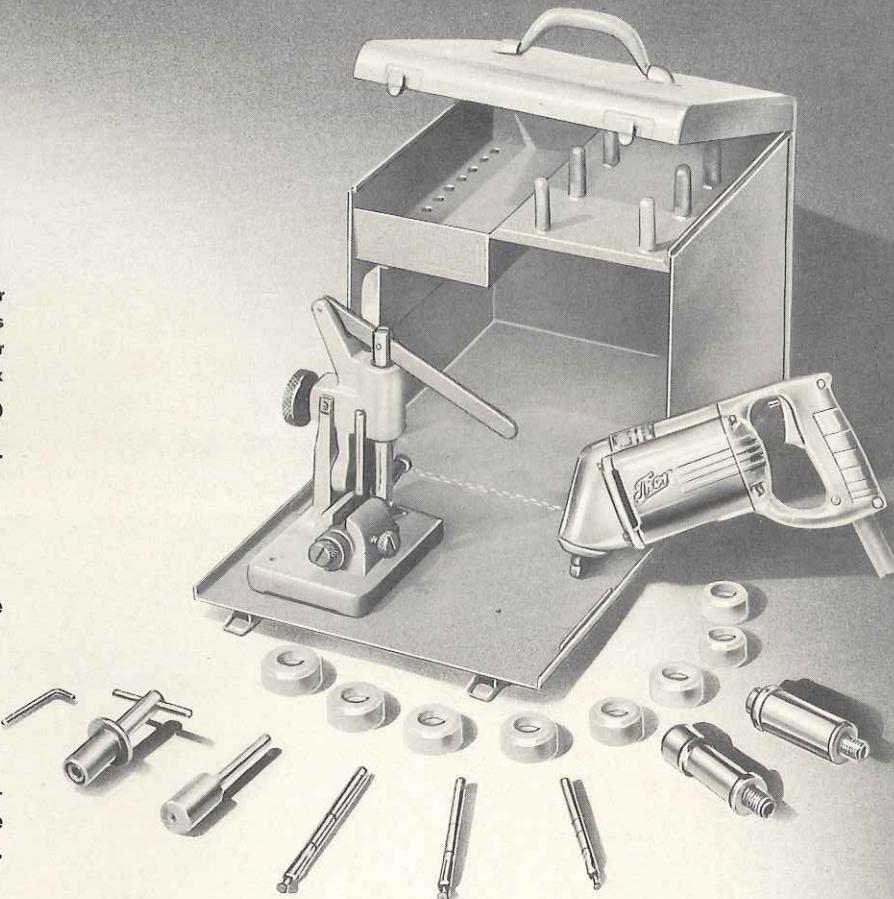
1.....no. SG valve seat grinder
2.....no. 25584 roller bearing wheel holders
1.....no. 74241 wheel dresser
1.....no. 74243 fitted metal box
8.....wheels {
4.....pilots } (as listed below)
shipping weight.....39 lbs.

no. 2A Valve Seat Grinder KIT

Same as no. 22A kit except wheels and pilots are not included. Shipping weight 35 lbs.

no. 11A Valve Seat Grinder KIT

Same as no. 22A kit except 2 no. 25582 plain bearing wheel holders are furnished in place of the roller bearing wheel holders. Shipping wt. 39 lbs.



no. 1A Valve Seat Grinder KIT

Same as no. 22A kit except 2 no. 25582 plain bearing wheel holders are furnished in place of the roller bearing wheel holders; wheels and pilots are not included. Shipping weight 35 lbs.



**COMPLETE ACCESSORIES
LISTING ... PAGE 49**

Wheels furnished with no. 22A and no. 11A Kits

1½" 45° Finishing Wheel No. 74159	1½" 30° Finishing Wheel No. 74163
1¾" 45° Finishing Wheel No. 74160	1¾" 30° Finishing Wheel No. 74164
1¼" 45° Finishing Wheel No. 74161	1¾" 45° Roughing Wheel No. 74165
1¾" 45° Finishing Wheel No. 74162	1¾" 45° Roughing Wheel No. 74166

Pilots furnished with no. 22A and no. 11A Kits

5/16" Expanding Pilot No. 25593	1 1/32" Plug Pilot (V8-85), No. 25623
1/2" Expanding Pilot No. 25599	Pilot Wrench No. 80984
3/8" Expanding Pilot No. 25601	



Portable Electric GENERATORS

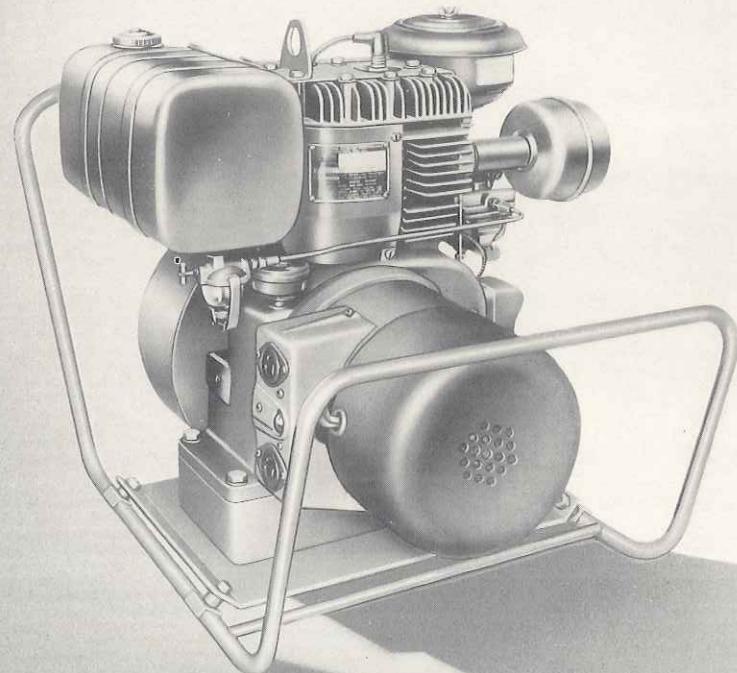
Thor Portable Generating Plants provide *portable power* any time—any place—for operation of portable power tools, lights, pumps, communications, remote power needs, oil burners, emergency and many other duties for contractors, tradesmen, utilities, municipalities, police, fire departments, etc.



no. EG-1.5 ELECTRIC GENERATOR

type A.C.
capacity 1500 watts—1.5 K.W.
voltage 115 @ 60 cycles
ampères 13 @ 115 volts
regulation inherent
speed 3600
size 23" diameter x 23 1/4" high
weight 95 lbs.
frame tubular protective frame and carrying handle
mounting vertical—fully shock mounted
coupling direct connected—no belts
starting manual—heavy duty rewind rope starter
control box aluminum casting . . . contains two (2) 15
ampere, straight bayonet, grounding type,
three-prong receptacles (which will also
accommodate standard two-prong plugs)
and indicator light . . . (alternate three-
prong, 20 ampere, 125 volt grounded twist-
lok receptacle available on to-order basis).

NOTE: The above are A.C. set specifications . . .
D.C. set specifications are identical with
the exception that voltage is 115 volts
D.C. and the catalog no. is EG-1.5D.



no. EG-2.5D ELECTRIC GENERATOR

type D.C.
capacity 2500 watts—2.5 K.W.
voltage 120 D.C.
amps 22 A 115 volts
regulation inherent (total 8%)
speed 3600 (nominal)
size length—31 1/4", width—20", height—19 1/2"
weight (dry) 165 lbs.
frame tubular protective frame and carrying handle
mounting horizontal
coupling direct connected (no belts)
starting manual rope
control box aluminum casting . . . contains two (2) 15
ampere, straight bayonet, grounding type,
three-prong receptacles (which will also
accommodate standard two-prong plugs)
and indicator light . . . (alternate three-
prong, 20 ampere, 125 volt grounded twist-
lok receptacles available on to-order
basis).



ACCESSORIES CATALOG



USE THOR ACCESSORIES
WITH
**THOR
TOOLS**

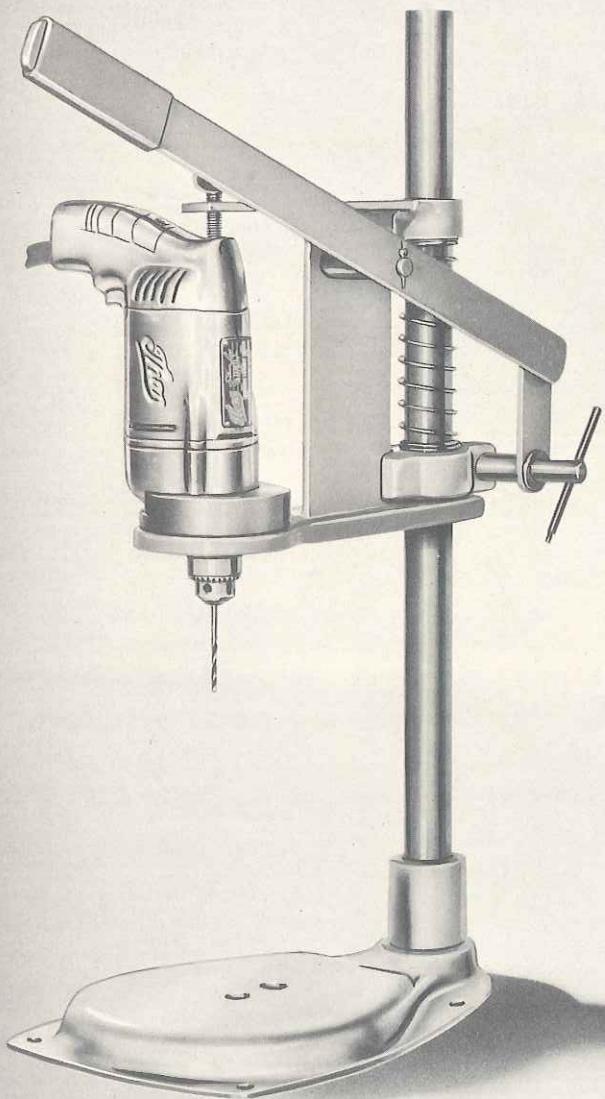
INDEX

BENCH GRINDER ACCESSORIES....	10a-11a
DRILL STANDS.....	2a
DRILL ACCESSORIES.....	3a-4a
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IMPACT WRENCH ACCESSORIES.....	5a-8a
POLISHER ACCESSORIES.....	13a
SANDER ACCESSORIES.....	12a-13a
SAW ACCESSORIES.....	9a
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SCREWDRIVING ACCESSORIES.....	5a-8a
SOCKETS.....	7a-8a
VALVE GRINDER ACCESSORIES.....	14a-15a

Drill STANDS

Thor drill stands convert portable drills to stationary drill press use. Sturdy all steel construction. Carefully engineered for (1) easy insertion and removal of tool (2) maximum accuracy (3) powerful leverage (4) endless service life. Holding brackets are adjustable to various heights to accommodate different jobs. Bolt holes in base for bench mounting.

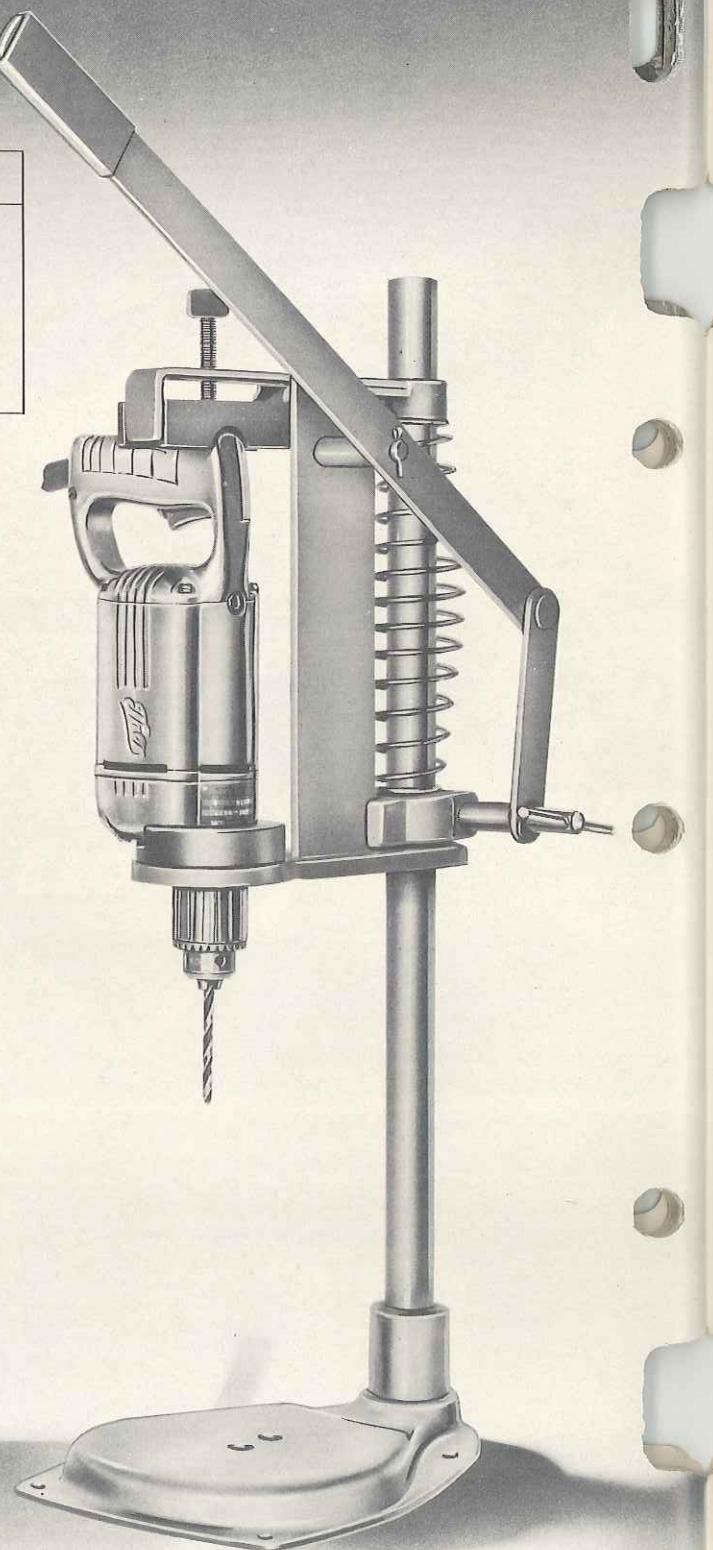
Drill Stand Catalog No.	1ED	1U14F	2EJ
vertical adjustment of column	12"	12"	12"
maximum travel of drill head	3 1/4"	6 1/4"	7 1/2"
drilling radius from column center	7 1/2"	7 1/2"	7 1/2"
leverage ratio	2 to 1	2.2 to 1	2.2 to 1
bench space	8 1/2" x 12 1/2"	8 1/2" x 12 1/2"	13 lbs.
weight	13 lbs.	19 lbs.	19 lbs.
shipping weight			



no. 1ED DRILL STAND
no. 1U14F DRILL STAND

No. 1ED Drill Stand is for use with all Thor ED series drills, screwdrivers and nutsetters.

No. 1U14F Drill Stand is for use with all Thor U14F series drills, screwdrivers and nutsetters with pistol grip or side handle.



no. 2EJ DRILL STAND

No. 2EJ Drill Stand is for use with all EJ series drills, screwdrivers and nutsetters with end grip or spade handle.

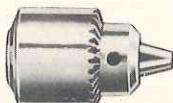


Thor offers a wide selection of drill accessories, engineered and tested for maximum service with portable electric tools. Chucks and morse taper equipment are precision manufactured to highest standards. "Gold edge" hole saws feature special heat treatment, combining extra hard teeth to retain sharpness, with extra strong body for long lasting service.

Drill

ACCESSORIES

GEARED CHUCKS and KEYS



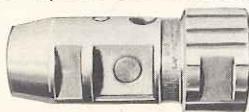
Chucks listed are standard 3 jaw geared chucks, operated with key. Keyless type chucks also available.

Chuck Size	Thread Size	Chuck No.	Key No.
3/16"	3/8" x 24	68252	25017
3/16"*	3/8" x 24	66929	25017
1/4"	3/8" x 24	25011	25017
1/4"*	3/8" x 24	20033	20034
5/16"	3/8" x 24	25076	25081
5/16"	1/2" x 20	76655	25081
3/8"	3/8" x 24	70646	73902
3/8"	1/2" x 20	25082	20039
7/16"	3/8" x 16	20073	20039
1/2"	1/2" x 20	75724	20039
1/2"	5/8" x 16	25245	20039
1/2"*	5/8" x 16	25252	20100
5/8"	5/8" x 16	25207	20100
3/4"	5/8" x 16	70488	70489
3/4"	3/4" x 16	76340	70489

*Heavy Duty.

TAPPING CHUCKS

complete with wrenches



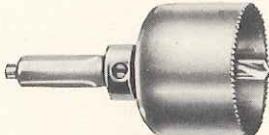
FOR TAPPER No. UKS

No. 75282 capacity 0 to 1/4"
No. 75838 capacity #10 to 5/16"

FOR TAPPER No. UBR

No. 75839 capacity #10 to 1/2"

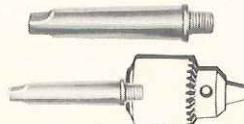
High Speed HOLE SAWS



Great time savers for cutting holes in floors, panels, wall switch boxes, radiator boilers, sinks, tubs, soil pipes; for pipe and conduit entrance holes, for drilling pipe taps and similar applications.

Diameter	HOLE SAWS		ARBORS		USE FOR PIPE	
	Catalog Number	1/2" Shank Arbor No.	1/4" Shank Arbor No.	Tap Size	Entrance Size	
3/4"	20935	20957	21085		3/8"	
7/8"	20936	20957	21085	3/4"	1/2"	
1"	20937	20957	21085			
1 1/8"	20938	20957	21085	1"	3/4"	
1 1/4"	20939	20957	21085			
1 3/8"	20940	20957	21085		1"	
1 1/2"	20941	20957	21085	1 1/4"		
1 5/8"	20942	20958	21085			
1 3/4"	20943	20958		1 1/2"	1 1/4"	
1 7/8"	20944	20958			1 1/2"	
2"	20945	20958			2"	
2 1/8"	20946	20958				
2 1/4"	20947	20958				
2 3/8"	20948	20958				
2 1/2"	20949	20958				
2 5/8"	20950	20958				
2 3/4"	20951	20958		2 1/2"		
2 7/8"	20952	20958				
3"	20953	20958			2 1/2"	
3 1/8"	20954	20958				
3 1/4"	20955	20958				
3 1/2"	20956	20958		3"		

MORSE TAPER SHANK ADAPTORS



External M.T.	Male Thread	No.
No. 2	5/8" x 16	70529
No. 3	5/8" x 16	70803

MORSE TAPER SOCKETS



Internal M.T.	Female Thread	No.
No. 1	3/8" x 24	70805
No. 1	1/2" x 20	67031
No. 1	5/8" x 16	59335
No. 2	1/2" x 20	69996
No. 2	5/8" x 16	59441
No. 2	3/4" x 16	76765
No. 3	5/8" x 16	75822
No. 3	3/4" x 16	76766

MORSE TAPER SLEEVES



External M.T.	Internal M.T.	No.
No. 2	No. 1	21798
No. 3	No. 2	22471

SPECIAL ARBOR



No. 74757—Arbor for use with wire wheel brushes and grinding wheels not over 4" in diameter with 1/2" arbor hole. Arbor has 1/4" shank.

HOLE SAW ARBORS



1/4" Shank Hole Saw Arbor

Cat. No. 21085. Can be used to drive any size hole saw from 3/4" to 1 1/2" diameter.

1/2" Shank Hole Saw Arbor

Cat. No. 20957. Drives Hole Saws from 3/4" to 1 1/2" diameter.
Cat. No. 20958. Drives Hole Saws from 1 1/8" to 3 1/2" diameter.



1/2" Heavy Duty Pin Drive Hole Saw Arbor

Cat. No. 25294. Drives Hole Saws from 1 1/8" to 3 1/2" diameter; particularly recommended for larger hole saws in heavy duty service.

1/4" PILOT DRILL no. 21086

High-speed Drill Bit, fits any of the arbors listed above.



Drill ACCESSORIES

Extend the usefulness of your electric drill with these sturdy professional attachments. Sanding and polishing attachments equipped with $\frac{1}{4}$ " mandrel for ready chucking. Saw attachments can be used in chuck or on drill spindle. Angle and hole spotter attachments are special equipment requiring special fitting to tool. Write for details.

COMPLETE SANDING ATTACHMENT



Fits any $\frac{1}{4}$ " drill. Complete with $\frac{1}{4}$ " arbor, rubber backing pad and one each, coarse, medium and fine sanding discs.

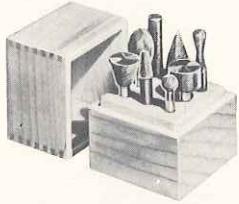
No. 22383 4" Diameter
No. 22384 5" Diameter

$\frac{1}{2}$ " Arbor Hole Sanding Discs

Closed Grain for Metal or Wood Sanding			
Grade	4" Diameter	5" Diameter	
	Number	Number	Number
24	20991	20984	
36	20992	20985	
60	20993	20986	
120	20994	20987	
180	20995	20988	

Open Grain for Wood Sanding		
24	20996	20989
36	20997	20990

ROTARY FILE SET



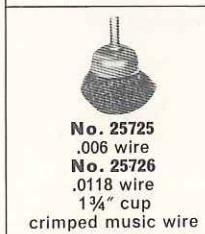
No. 71699. Set consists of eight medium cut rotary files in wood case. Popular shapes: ball, drum, cone, etc. Made of selected steel heat treated for rapid cutting and long service. $\frac{1}{4}$ " shanks.

$\frac{1}{4}$ " SHANK CARBON CLEANING BRUSHES



No. 72640
1" dia.
.028 straight
wire

Extra sturdy, arbor and wire brush all in one. Chuck into your electric drill for removing carbon deposits on cylinders, valve seats and combustion chambers. Also excellent for burr, paint and rust removal.



No. 25725
.006 wire
No. 25726
.0118 wire
1 $\frac{1}{4}$ " cup
crimped music wire

No. 72642
1" dia.
.020 crimped
spec. analysis wire



No. 72643
.020 crimped
spec. analysis wire



No. 72644
1 $\frac{1}{2}$ " dia.
.020 crimped
spec. analysis wire

No. 72645
3" dia.
.020 flared
spec. analysis wire



No. 72646
1 $\frac{1}{2}$ " dia.
.020 spiral
twist spec. anal. wire

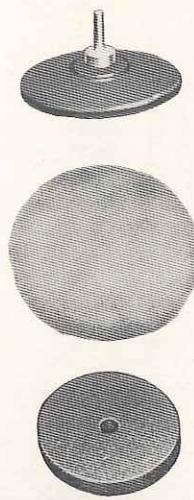
COMPLETE POLISHING ATTACHMENT



No. 22385
4" Diameter
No. 22386
5" Diameter

Fits any $\frac{1}{4}$ " drill. Complete with $\frac{1}{4}$ " arbor, rubber backing pad, felt cushion pad and draw string polishing bonnet.

Adaptor for $\frac{1}{2}$ " Drills .. No. 21919
Includes $\frac{1}{2}$ " diameter arbor with $\frac{5}{8}$ " x 11 male thread and no. 59572 nut.



RUBBER BACKING PADS

No. 22381 4" Diameter
No. 22382 5" Diameter
No. 22380 $\frac{1}{4}$ " Backing Pad Arbor

LAMBSWOOL BONNETS

No. 21117 4" Diameter
No. 21776 5" Diameter

FELT CUSHION PADS

No. 21777 4" Diameter
No. 21778 5" Diameter

SABER SAW ATTACHMENT



Catalog No. 86376. Weight, 3 lbs. 3 oz.; overall length $7\frac{1}{4}$ "; blade offset, 1"; stroke $1\frac{1}{16}$ "; use on drills having speeds of 1000 to 2500 R.P.M. Comes complete with one general purpose blade, $\frac{1}{4}$ " chuck adaptor, one threaded $\frac{1}{2}$ " x 20 male— $\frac{3}{8}$ " x 24 female spindle adaptor.

METAL CUTTING BLADES			GENERAL PURPOSE BLADES		
Cat. No.	Size	Teeth Per Inch	Cat. No.	Size	Teeth Per Inch
25383	$\frac{1}{2}" \times 2\frac{1}{2}"$	14	25391	$\frac{3}{4}" \times 3"$	10
25384	$\frac{1}{2}" \times 2\frac{1}{2}"$	18	25392	$\frac{3}{4}" \times 3"$	18
25385	$\frac{1}{2}" \times 2\frac{1}{2}"$	24	25393	$\frac{3}{4}" \times 5"$	6
25386	$\frac{1}{2}" \times 4"$	14	25394	$\frac{3}{4}" \times 5"$	10
25387	$\frac{1}{2}" \times 4"$	18	25395	$\frac{3}{4}" \times 5"$	18
25388	$\frac{1}{2}" \times 4"$	24	25396	$\frac{3}{4}" \times 12"$	18
25389	$\frac{5}{16}" \times 3"$	18	Special Wood Cutting		
25390	$\frac{5}{16}" \times 3"$	24	25397	$\frac{5}{16}" \times 3"$	7

HOLE SPOTTER

Catalog No. 71259. For drills with $1\frac{1}{8}$ " plain spindle hub. Specify drill bushing size required.

ALL ANGLE ATTACHMENT



Catalog No. 75538. For drills with $1\frac{1}{2}$ " x 20 or $1\frac{1}{4}$ " x 20 LH US S threaded hub. Permits drilling any angle through 360° .

In addition to nut setting sockets shown on pages 7A and 8A, your $\frac{1}{2}$ " square drive impact wrench can be adapted to wire brushing, tapping, screwdriving, and drilling with accessories shown below. Screwdriving attachment uses $\frac{1}{16}$ " hexagon shank bits. Drill chuck holds drill bits or taps up to $\frac{1}{2}$ " diameter shank. Extra sturdy, compact, right angle extension.

Impact Wrench

ACCESSORIES

SEE THE FOLLOWING PAGES FOR ADDITIONAL SCREWDRIVING AND NUTSETTING ACCESSORIES • ALL ADAPTABLE FOR USE WITH YOUR THOR IMPACT WRENCH

$\frac{1}{2}$ " SQUARE DRIVE HEX. SOCKETS Standard length, 6 pt., single broached

Number	For Size Nut Across Flats Inches	Outside Diam. Socket End Inches	Length Inches
20660	$\frac{3}{8}$	.605	$1\frac{1}{2}$
20661	$\frac{7}{16}$	.690	$1\frac{1}{2}$
20662	$\frac{1}{2}$	.773	$1\frac{1}{2}$
20663	$\frac{9}{16}$	.854	$1\frac{1}{2}$
20664	$\frac{15}{32}$	.897	$1\frac{1}{2}$
20665	$\frac{5}{8}$	.941	$1\frac{1}{2}$
20666	$\frac{21}{32}$	.982	$1\frac{1}{2}$
20667	$\frac{11}{16}$	1.022	$1\frac{1}{2}$
20668	$\frac{3}{4}$	1.105	$1\frac{1}{2}$
20669	$\frac{25}{32}$	1.147	$1\frac{1}{2}$
20670	$\frac{13}{16}$	1.190	$1\frac{1}{2}$
20671	$\frac{7}{8}$	1.273	$1\frac{1}{2}$
20672	$\frac{29}{32}$	1.313	$1\frac{1}{2}$
20673	$\frac{15}{16}$	1.354	$1\frac{3}{4}$
20675	1	1.440	$1\frac{3}{4}$
20676	$1\frac{1}{16}$	1.522	2
20678	$1\frac{1}{8}$	1.605	2
20679	$1\frac{1}{16}$	1.691	2

$\frac{5}{8}$ " SQUARE DRIVE HEX. SOCKETS

23759	$\frac{5}{16}$	.925	$1\frac{1}{2}$
23760	$\frac{5}{8}$	.984	$1\frac{1}{2}$
23761	$\frac{11}{16}$	1.100	$1\frac{3}{4}$
23762	$\frac{3}{4}$	1.187	$1\frac{3}{4}$
23763	$\frac{25}{32}$	1.210	$1\frac{3}{4}$
23764	$\frac{13}{16}$	1.250	$1\frac{3}{4}$
23765	$\frac{7}{8}$	1.312	$1\frac{3}{4}$
23766	$\frac{29}{32}$	1.375	$1\frac{3}{4}$
23767	$\frac{15}{16}$	1.400	2
23768	$\frac{31}{32}$	1.437	2
23769	1	1.500	2
23770	$1\frac{1}{16}$	1.562	2
23771	$1\frac{1}{8}$	1.687	2
23772	$1\frac{1}{16}$	1.750	2
23773	$1\frac{1}{4}$	1.812	$2\frac{1}{8}$
23774	$1\frac{5}{16}$	1.937	$2\frac{1}{8}$
23775	$1\frac{3}{8}$	2.000	$2\frac{1}{4}$
23776	$1\frac{1}{16}$	2.062	$2\frac{1}{4}$
23777	$1\frac{1}{2}$	2.125	$2\frac{3}{8}$

SOCKET ADAPTORS



No. 22184 $\frac{1}{2}$ " female sq., $\frac{3}{8}$ " male sq.
 No. 22185 $\frac{1}{2}$ " female sq., $\frac{5}{8}$ " male sq.
 No. 22186 $\frac{1}{2}$ " female sq., $\frac{3}{4}$ " male sq.
 No. 22187 $\frac{5}{8}$ " female sq., $\frac{1}{2}$ " male sq.
 No. 22188 $\frac{5}{8}$ " female sq., $\frac{3}{4}$ " male sq.



SOCKET SHANK EXTENSIONS same square drive both ends

No. 20895 $\frac{1}{2}$ " sq. drive 2" long
 No. 20896 $\frac{1}{2}$ " sq. drive 5" long
 No. 20897 $\frac{1}{2}$ " sq. drive 10" long
 No. 20332 $\frac{5}{8}$ " sq. drive 4" long
 No. 20333 $\frac{5}{8}$ " sq. drive 6" long
 No. 20899 $\frac{5}{8}$ " sq. drive 8" long



UNIVERSAL JOINTS same square drive both ends

No. 20888 $\frac{1}{2}$ " sq. drive $2\frac{5}{64}$ " long
 No. 21884 $\frac{1}{2}$ " sq. drive $2\frac{3}{8}$ " long
 No. 22241 $\frac{5}{8}$ " sq. drive $2\frac{3}{8}$ " long



WIRE BRUSH ARBOR

For wire brushes, grinding wheels, sanding pads, etc., accommodates accessories with $\frac{1}{2}$ " hole. Female square socket fits on $\frac{1}{2}$ " square drive of impact wrench.

No. 25496 complete with 4" x $\frac{1}{2}$ " wire brush.
 No. 25569 replacement wire brush only.



3-JAW GEARED CHUCK

No. 25401 capacity to $\frac{1}{2}$ " diameter accessories. Female square socket fits on $\frac{1}{2}$ " square drive of impact wrench.

COLLET CHUCKS



No. 76387 capacity $\frac{3}{16}$ " to $\frac{3}{8}$ " round shanks and No. 10 to $\frac{1}{2}$ " taps and reamers. Fits $\frac{1}{2}$ " square drive impact wrenches.

No. 22473 capacity $\frac{5}{16}$ " to $\frac{1}{2}$ " round shanks and $\frac{3}{16}$ " to $\frac{5}{8}$ " taps and reamers. Fits $\frac{5}{8}$ " square drive impact wrenches.

EXTRA COLLETS for No. 76387 or No. 22473 chucks. No. 22476 collet, capacity $\frac{3}{16}$ " to $\frac{3}{8}$ " round shanks and No. 10 to $\frac{1}{2}$ " taps and reamers. No. 22610 collet, capacity $\frac{5}{16}$ " to $\frac{1}{2}$ " round shanks and $\frac{3}{16}$ " to $\frac{5}{8}$ " taps and reamers.



MORSE TAPERS

No. 21797—No. 2 Morse Taper Socket fits on $\frac{1}{2}$ " square drive impact wrenches.

No. 21798—Reducer Sleeve, No. 2 external to No. 1 internal.

No. 22470—No. 3 Morse Taper Socket fits on $\frac{5}{8}$ " square drive impact wrenches.

No. 22471—Reducer Sleeve, No. 3 external to No. 2 internal.



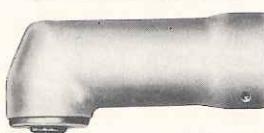
SCREWDRIVING CHUCKS

No. 73466 quick change chuck for $\frac{7}{16}$ " hex. shank screwdriver bits, fits $\frac{1}{2}$ " square drive impact wrenches.

No. 73490 quick change chuck for $\frac{7}{16}$ " hex. shank screwdriver bits, fits $\frac{5}{8}$ " square drive impact wrenches.

$\frac{1}{16}$ " HEX. SHANK SCREWDRIVER BITS

PHILLIPS, REED PRINCE TYPE		SLOTTED HEAD BIT AND FINDER ASSEMBLIES	
CAT. NO.	SIZE	CAT. NO.	SIZE
57551	No. 2 Phillips	72953	No. 10F, 12R
57552	No. 3 Phillips	72954	No. 12F, 14R
57553	No. 4 Phillips	72964	No. 14F, 16R
75281	Reed Prince	72965	No. 16F, 18R
		72966	No. 18F, 20R
		72967	No. 20F, 22R



RIGHT ANGLE ATTACHMENT

no. 86391

$\frac{1}{2}$ " square drive, male and female. Height of head less socket $2\frac{1}{8}$ "; offset $2\frac{3}{32}$ "; overall length $5\frac{5}{32}$ "; weight 2 $\frac{1}{2}$ lbs.



STUD REMOVER

No. 21900 fits $\frac{1}{2}$ " square drive impact wrenches for removing $\frac{3}{16}$ " to $\frac{1}{2}$ " studs.

No. 22481 fits $\frac{5}{8}$ " square drive impact wrenches for removing $\frac{3}{16}$ " to $\frac{5}{8}$ " studs.

CARBIDE TIPPED MASONRY DRILLS

Catalog Number	Nominal Diameter	Actual Diameter	Length Overall	Shank Diameter
22834	$\frac{1}{16}$ "	.260	4"	$\frac{7}{32}$ "
22835	$\frac{5}{16}$ "	.328	4"	$\frac{1}{4}$ "
22836	$\frac{3}{8}$ "	.390	4"	$\frac{1}{4}$ "
22837	$\frac{1}{2}$ "	.525	4"	$\frac{1}{4}$ "

**Screwdriver-Nutsetter
Impact Wrench
ACCESSORIES**

Complete line of $\frac{1}{4}$ " and $\frac{7}{16}$ " hexagon shank screwdriver equipment—engineered, machined and heat-treated for maximum service. $\frac{7}{16}$ " hexagon shank equipment is suited for impact wrench applications, using adaptors shown on page 5A. Insert bits fit $\frac{1}{4}$ " or $\frac{7}{16}$ " magnetized holders as shown.

All References to EXTENSION are not overall length, but length of projection beyond attachment
F = Flat Head Screw (also covers Oval or Binding Head) R = Round Head Screw



Finder

Bit

$\frac{1}{4}$ " HEXAGON SHANK

STANDARD BITS AND FINDERS
Finders are Non-Rotating

Screw Size	Bit Only Cat. No.	Finder Only Cat. No.	Screw Size	Bit Only Cat. No.	Finder Only Cat. No.
2F, 2R	75280	22463	7F, 8R	22421	22328
3F, 3R	75274	84034	8F, 9F, 9R, 10R	73197	22320
4F, 4R	73194	22311	10F, 12R	73198	22321
5F, 5R, 6R	73195	22325	12F, 14R	73199	22323
6F, 7R	73196	22318	14F, 16R	75356	22462

$1\frac{1}{8}$ " EXTENSION BITS AND FINDERS

Finders are non-rotating.

Screw Size	Bit Only Cat. No.	Finder Only Cat. No.	Screw Size	Bit Only Cat. No.	Finder Only Cat. No.
2F, 2R	77414	75122	7F to 10R	77418	75127
3F, 3R	77415	75123	10F, 12R	77419	75128
4F, 4R	77416	75124	12F, 14R	77420	75129
5F to 7R	77417	75125			

$2\frac{1}{16}$ " EXTENSION BITS AND FINDERS

For use in Extension Shanks with Chucks shown below.
Finder rotates.

Screw Size	Bit Only Cat. No.	Bit and Finder Assembly Cat. No.	Screw Size	Bit Only Cat. No.	Bit and Finder Assembly Cat. No.
4F, 4R	75240	75246	8F to 10R	75243	75249
5F, 5R, 6R	75241	75247	10F, 12R	75244	75250
6F to 8R	75242	75248	12F, 14R	75245	75251

4" EXTENSION BITS AND FINDERS

Finders Rotate

Screw Size	Bit Only Cat. No.	Bit and Finder Assembly Cat. No.	Screw Size	Bit Only Cat. No.	Bit and Finder Assembly Cat. No.
4F, 4R	75086	75087	8F to 10R	75104	75105
5F, 5R, 6R	75096	75097	10F, 12R	75108	75109
6F to 8R	75100	75101	12F, 14R	75112	75113

6" EXTENSION BITS AND FINDERS

Finders Rotate

Screw Size	Bit Only Cat. No.	Bit and Finder Assembly Cat. No.	Screw Size	Bit Only Cat. No.	Bit and Finder Assembly Cat. No.
4F, 4R	75088	75095	8F to 10R	75106	75107
5F, 5R, 6R	75098	75099	10F, 12R	75110	75111
6F to 8R	75102	75103	12F, 14R	75114	75115

PHILLIPS BITS

Standard Hardness		Extra Hard For Self-Tapping Screws			
Point Size	Std. Length Catalog No.	1 $\frac{1}{8}$ " Ext. Catalog No.	Point Size	Std. Length Catalog No.	1 $\frac{1}{8}$ " Ext. Catalog No.
1	22934	22938	1	22936	22940
2	22935	22939	2	22937	22941
3	24638	75278	3	22670	22672

REED & PRINCE BITS

One Size Point Fits All Sizes of Reed & Prince Screws
Cat. No. 22090—Standard Length. Standard Diameter $\frac{1}{4}$ ".

EXTENSION SHANKS WITH CHUCK



Chuck Accepts $\frac{1}{4}$ " Hex. Shank Bits or Socket Wrench Shanks.

2 $\frac{1}{16}$ " Length Cat. No. 22095	4" Length Cat. No. 75252	6" Length Cat. No. 75253
---	-----------------------------	-----------------------------

Complete line of $\frac{1}{4}$ " and $\frac{7}{16}$ " hexagon shank screwdriver equipment—engineered, machined and heat-treated for maximum service. $\frac{7}{16}$ " hexagon shank equipment is suited for impact wrench applications, using adaptors shown on page 5A. Insert bits fit $\frac{1}{4}$ " or $\frac{7}{16}$ " magnetized holders as shown.

$\frac{7}{16}$ " HEXAGON SHANK

STANDARD BITS AND FINDERS

Finders Rotate

Screw Size	Bit Only Cat. No.	Bit and Finder Assembly Cat. No.	Screw Size	Bit Only Cat. No.	Bit and Finder Assembly Cat. No.
6F, 6R, 8R	72944	72951	16F, 18R	72961	72965
8F, 9F, 9R	72945	72952	18F, 20R	72962	72966
10F, 10R, 12R	72946	72953	20F	72963	72967
12F, 14R	72947	72954	24F	72907	72956
14F, 16R	72960	72964			

EXTENSION SHANKS WITH CHUCK

Chuck accepts $\frac{7}{16}$ " Hex. Shank Bits or Socket Wrench Shanks.

4" Length, Cat. No. 75254	6" Length, Cat. No. 75255
---------------------------	---------------------------

PHILLIPS BITS

Standard Hardness Point Size	Catalog No.	Extra Hard (For Self-Tapping Screws) Point Size	Catalog No.
2	57551	2	22942
3	57552	3	22943
4	57553	4	22944

REED & PRINCE BITS

One Size Point Fits All Sizes of Reed & Prince Screws
Cat. No. 75281—Standard Length. Standard Diameter $\frac{3}{8}$ ".

MAGNETIZED HOLDERS and INSERT BITS



HOLDERS

Cat. No. 22256— $\frac{1}{4}$ " Hex. Shank (Requires Guide Bushing No. 25293). Cat. No. 22257— $\frac{7}{16}$ " Hex. Shank.

INSERT BITS

All Bits Fit Either Holder Above

SLOTTED HEAD Cat. No.	For Screw Size	SOCKET HEAD Cat. No.	Hex. Size
22262	4F-5R	22274	$\frac{3}{32}$ "
22263	6F-8R	22275	$\frac{1}{6}$ "
22264	8F-10R	22276	$\frac{5}{32}$ "
22265	10F-12R	22277	$\frac{3}{16}$ "
22266	12F-14R	22278	$\frac{7}{32}$ "
22267	14F-16R	22279	$\frac{1}{4}$ "
		22280	$\frac{5}{16}$ "

PHILLIPS HEAD INSERT BITS

For Point Size	Standard Hardness Catalog No.	Extra Hard Catalog No.
1	22258	22674
2	22259	22675
3	22260	22676

FREARSON OR REED & PRINCE INSERT BITS

Cat. No. 22261 for Screw Size No. 5 or smaller.

Cat. No. 22282 for Screw Size No. 6 or larger.

CLUTCH HEAD INSERT BITS

Cat. No.	For Clutch Screw	Cat. No.	For Clutch Screw
22268	$\frac{3}{16}$ "	22271	$\frac{3}{16}$ "
22269	$\frac{1}{6}$ "	22272	$\frac{1}{4}$ "
22270	$\frac{5}{32}$ "		

GUIDE BUSHINGS—Used when Finder is removed

—for $\frac{1}{4}$ " hexagon Phillips and Reed and Prince Bits, extensions and socket shanks without shoulder. Cat. No. 25293 for No. 22256 Magnetized Holder.

Cat. No. 75076. Used with $\frac{3}{16}$ " diam. No. 1 Point Phillips Bit.

Cat. No. 75077. Used with $\frac{1}{4}$ " diam. Reed and Prince Bits and No. 2 Point Phillips Bits.

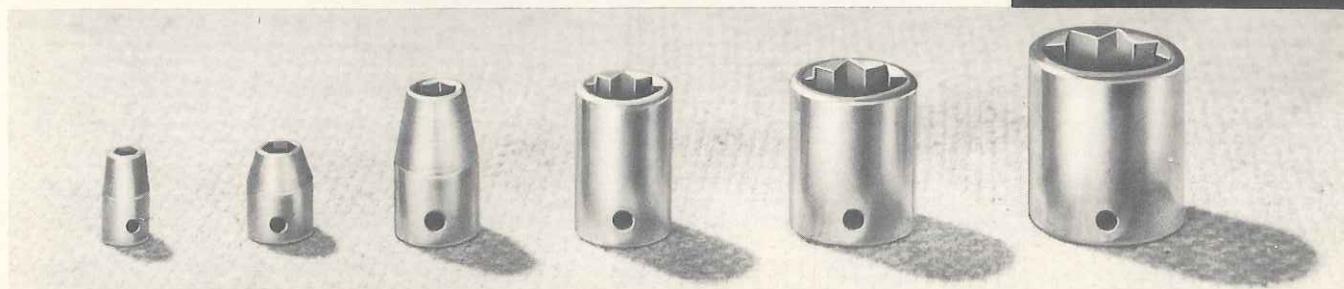
Cat. No. 75358. Used with $\frac{1}{4}$ " socket shank without shoulder, and extensions.



CHICAGO, ILLINOIS

Sturdily built for either power driver, or impact wrench use, Thor offers a comprehensive line of popular size and type nut setting sockets, available in $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ " square drive. Thor sockets are forged or protruded from selected alloy steel, heat-treated to resist wear and fracture under hardest usage.

**Screwdriver-Nutsetter
Impact Wrench
ACCESSORIES**



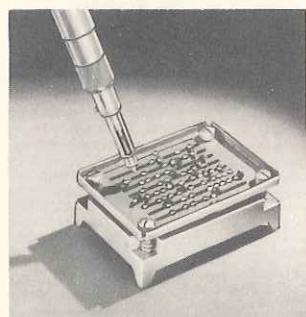
HEXAGON SOCKETS • STANDARD LENGTH • SINGLE BROACHED

Catalog Number	For Size Nut Across Flats	Outside Diameter Socket End	Length
1/4" SQUARE DRIVE			
For Regular Service or Parker Kalon			
20543	$\frac{3}{16}$ "	.355"	$\frac{7}{8}$ "
20544	$\frac{7}{32}$ "	.396"	$\frac{7}{8}$ "
20545	$\frac{1}{4}$ "	.437"	$\frac{7}{8}$ "
20546	$\frac{1}{4}^*$	.437"	$\frac{7}{8}$ "
20547	$\frac{9}{32}$ "	.470"	$\frac{7}{8}$ "
20548	$\frac{5}{16}$ "	.490"	$\frac{7}{8}$ "
20549	$\frac{11}{32}$ "	.531"	$\frac{7}{8}$ "
20550	$\frac{3}{8}$ "	.562"	$\frac{7}{8}$ "
20551	$\frac{7}{16}$ "	.650"	$\frac{7}{8}$ "
20552	$\frac{1}{2}$ "	.700"	$\frac{7}{8}$ "

*Denotes inside hex. taper.

1/4" SQUARE DRIVE THIN WALL

Catalog Number	For Size Nut Across Flats	Outside Diameter Socket End	Length
20553	$\frac{3}{16}$ "	.290"	$\frac{15}{16}$ "
20554	$\frac{7}{32}$ "	.328"	$\frac{15}{16}$ "
20555	$\frac{1}{4}$ "	.367"	$\frac{15}{16}$ "
20556	$\frac{9}{32}$ "	.405"	$\frac{15}{16}$ "
20557	$\frac{5}{16}$ "	.445"	$\frac{15}{16}$ "
20558	$\frac{11}{32}$ "	.485"	$\frac{15}{16}$ "
20559	$\frac{3}{8}$ "	.520"	$\frac{15}{16}$ "
20560	$\frac{7}{16}$ "	.594"	$\frac{15}{16}$ "



**PIX-UP FINDERS
and
ADJUSTO-TRAY**

Screws are tossed on slotted Adjusto-Tray. They drop into slots with heads up, ready for pickup.

Screwdriver is lowered to tray, which depresses to thrust screw head into "Pix-Up" Finder, which grips it firmly. Screwdriver is brought to work and screw is driven without being touched by hand.

**PIX-UP FINDERS
and BITS**



PIX-UP FINDER



EXTENSION BIT

ADJUSTO-TRAYS

Cat. No.	For Screw No.
71102	2
69408	3 and 4
69409	5 and 6
69410	8 and 10
71103	12 and 14

Screw Size	* $1\frac{1}{8}$ " Extension Bit Only for Pix-Up Finder	Pix-Up Finder Assembly **
3R	77415	69414
3F	77415	69418
4R	77416	69422
4F	77416	69426
6R	77417	69430
6F	77417	70040
8R	77418	69435
8F	77418	70044
10R	77419	69440
10F	77419	73042
12R	77420	69445
14R	80885	69450

*Extension is from end of attachment, not overall length. Extension bit must be ordered with finder.

**Any Pix-Up Finder for screws not listed, information on application.

Catalog Number	For Size Nut Across Flats	Outside Diameter Socket End	Length
3/8" SQUARE DRIVE			
For Regular Service or Parker Kalon			
20593	$\frac{5}{16}$ "	.500"	$\frac{7}{8}$ "
20594	$1\frac{1}{32}$ "	.512"	$\frac{7}{8}$ "
20595	$\frac{3}{8}$ "	.552"	$\frac{7}{8}$ "
20596	$\frac{7}{16}$ "	.633"	$\frac{7}{8}$ "
20597	$\frac{1}{2}$ "	.740"	$\frac{7}{8}$ "
20598	$1\frac{1}{32}$ "	.745"	$\frac{7}{8}$ "
20599	$\frac{9}{16}$ "	.791"	$\frac{7}{8}$ "
20600	$1\frac{1}{32}$ "	.834"	$\frac{7}{8}$ "
20601	$\frac{5}{8}$ "	.870"	$\frac{7}{8}$ "
20602	$1\frac{1}{16}$ "	.952"	1"
20603	$\frac{3}{4}$ "	1.032"	1"

Catalog Number	For Size Nut Across Flats	Outside Diameter Socket End	Length
1/2" SQUARE DRIVE			
For Regular Service or Parker Kalon			
20660	$\frac{3}{8}$ "	.605"	$1\frac{1}{2}$ "
20661	$\frac{7}{16}$ "	.690"	$1\frac{1}{2}$ "
20662	$\frac{1}{2}$ "	.773"	$1\frac{1}{2}$ "
20663	$\frac{9}{16}$ "	.854"	$1\frac{1}{2}$ "
20664	$1\frac{1}{32}$ "	.897"	$1\frac{1}{2}$ "
20665	$\frac{5}{8}$ "	.941"	$1\frac{1}{2}$ "
20666	$2\frac{1}{32}$ "	.982"	$1\frac{1}{2}$ "
20667	$1\frac{1}{16}$ "	1.022"	$1\frac{1}{2}$ "
20668	$\frac{3}{4}$ "	1.105"	$1\frac{1}{2}$ "
20669	$2\frac{5}{32}$ "	1.147"	$1\frac{1}{2}$ "
20670	$1\frac{13}{16}$ "	1.190"	$1\frac{1}{2}$ "
20671	$\frac{7}{8}$ "	1.273"	$1\frac{1}{2}$ "
20672	$2\frac{9}{32}$ "	1.313"	$1\frac{1}{2}$ "
20673	$1\frac{15}{16}$ "	1.354"	$1\frac{3}{4}$ "
20675	1"	1.440"	$1\frac{3}{4}$ "
20676	$1\frac{1}{16}$ "	1.522"	2"
20678	$1\frac{1}{8}$ "	1.605"	2"
20679	$1\frac{1}{32}$ "	1.691"	2"

Catalog Number	For Size Nut Across Flats	Outside Diameter Socket End	Length
5/8" SQUARE DRIVE			
For Regular Service or Parker Kalon			
23759	$\frac{9}{16}$ "	.925"	$1\frac{1}{2}$ "
23760	$\frac{5}{8}$ "	.984"	$1\frac{1}{2}$ "
23761	$1\frac{1}{16}$ "	1.100"	$1\frac{3}{4}$ "
23762	$\frac{3}{4}$ "	1.187"	$1\frac{3}{4}$ "
23763	$2\frac{5}{32}$ "	1.210"	$1\frac{3}{4}$ "
23764	$1\frac{13}{16}$ "	1.250"	$1\frac{3}{4}$ "
23765	$\frac{7}{8}$ "	1.312"	$1\frac{3}{4}$ "
23766	$2\frac{9}{32}$ "	1.375"	$1\frac{3}{4}$ "
23767	$1\frac{15}{16}$ "	1.400"	2"
23768	$3\frac{1}{32}$ "	1.437"	2"
23769	1"	1.500"	2"
23770	$1\frac{1}{16}$ "	1.562"	2"
23771	$1\frac{1}{8}$ "	1.687"	2"
23772	$1\frac{1}{16}$ "	1.750"	2"
23773	$1\frac{1}{4}$ "	1.812"	$2\frac{1}{8}$ "
23774	$1\frac{5}{16}$ "	1.937"	$2\frac{1}{8}$ "
23775	$1\frac{3}{8}$ "	2.000"	$2\frac{1}{4}$ "
23776	$1\frac{7}{16}$ "	2.062"	$2\frac{1}{4}$ "
23777	$1\frac{1}{2}$ "	2.125"	$2\frac{5}{8}$ "

**Screwdriver-Nutsetter
Impact Wrench
ACCESSORIES**

Thor nut setter and impact wrench equipment is engineered and manufactured specifically to give maximum service with power tools. Socket Drivers convert power screwdrivers to nut setting applications. Socket Adaptors convert square drive of impact wrenches to larger or smaller drive as required.

3/4" SQUARE

DRIVE

HEXAGON

SOCKETS standard length-single broached



SOCKET PINS—3/4" square drive sockets are designed for use with socket pins and "O" ring pin retainers. Socket pins and "O" ring pin retainers are not furnished with these sockets. Order by numbers shown.

SOCKET DRIVERS



The following suitable for use with either Impact or Power Type Sockets.

**1/4" HEXAGON SHANK
USE GUIDE BUSHING No. 75358**

Catalog Number	Driver Only	Driver Bushing Assy.	Square Drive	Length Inches
77387	73923		1/4"	2 1/8"
77388	73924		5/32"	2 1/8"
77389	73925		3/8"	2 1/8"

Driver Only 5/16" HEXAGON SHANK

20513	5/8"	1 1/8"
20514	3/4"	2 3/4"
20515	3/4"	5"
20519	1/2"	1 13/16"
20520	1/2"	2 3/4"
20521	1/2"	5"

Driver Only 5/8" HEXAGON SHANK

20527	1/2"	3"
20528	1/2"	5"



Catalog Number	Square Drive	Length Inches
POWER TYPE		
20887	5/8"	1 1/8"
20888	1/2"	2 25/64"
IMPACT TYPE		
21884	1/2"	2 3/8"
22241	5/8"	2 3/4"
22242	3/4"	4"
22243	1"	4 1/8"

Catalog Number	For Size Nut Across Flats Inches	Outside Diameter Socket End Inches	Length Inches	Socket Pin	"O" Ring Retainer
20276	1/2	.937	1 1/8	23828	23832
20277	5/16	1.000	1 1/8	23828	23832
20278	5/8	1.093	1 1/8	23828	23832
20279	11/16	1.156	2	23828	23832
20280	3/4	1.250	2	23828	23832
20281	25/32	1.281	2	23828	23832
20282	13/16	1.375	2	23828	23832
20283	7/8	1.500	2 1/16	23828	23832
20284	23/32	1.500	2 1/16	23828	23832
20285	15/16	1.562	2 1/8	23828	23832
20286	1	1.625	2 1/8	23828	23832
20287	1 1/16	1.687	2 3/16	23828	23832
20288	1 1/8	1.750	2 1/4	23828	23832
20289	1 1/16	1.875	2 5/16	23828	23832
20290	1 1/4	2.000	2 3/8	23828	23832
20291	1 5/16	2.062	2 7/16	23828	23832
20292	1 1/2	2.125	2 1/2	23829	23833
20293	1 7/16	2.250	2 5/16	23829	23833

SOCKET DRIVER EXTENSIONS



Catalog Number	Type	Square Drive	Length
20892	Power	5/8"	3"
20893	Power	3/8"	6"
20895	Power	1/2"	2"
20896	Power	1/2"	5"
20897	Power	1/2"	10"
20899	Power	5/8"	8"
20332	Impact	5/8"*	4"
20333	Impact	5/8"*	6"
20899	Impact	5/8"*	8"
20336	Impact	3/4"**	7"
20337	Impact	3/4"**	10"
20338	Impact	3/4"**	13"
20339	Impact	1"	6"
20340	Impact	1"	9"
20341	Impact	1"	12"

*Outside Diam. Female End—1 1/16"

**Outside Diam. Female End—1 1/4"

†Outside Diam. Female End—2"

SOCKET ADAPTORS



Square Drive Socket Adaptors provide a ready means of changing the square drive of any impact wrench to a larger or smaller drive as required.

Catalog Number	Male Square	Female Square
20907	1/4"	5/8"
22194	1/2"	3/8"
22184	5/8"	1/2"
22185	5/8"	5/8"
22186	3/4"	1/2"
22187	1/2"	5/8"
22188	3/4"	5/8"
22189	1/2"	3/4"
22190	5/8"	3/4"
22191	1"	5/8"
22192	5/8"	1"
22193	5/8"	1"



Fine steel blades and safe, reenforced abrasive discs keep your saw cutting at maximum efficiency. Available in all popular styles to fit Thor SilverLine and CopperLine Saws. Diamond arbor blades fit directly on SilverLine Saws, round arbor hole blades fit CopperLine Saws. No. 22289 adaptor converts diamond arbors to $\frac{5}{8}$ " round arbors.

Saw

ACCESSORIES

SAW BLADES AND FLEXIBLE WHEELS

To convert diamond arbor blades for use on $\frac{5}{8}$ " round arbor order adaptor No. 22289

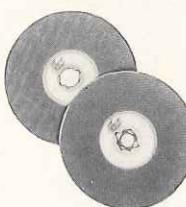
BLADE TYPE	USED FOR	SilverLine DIAMOND ARBOR SAWS		CopperLine $\frac{5}{8}$ " ROUND ARBOR SAWS	
		Catalog No.	Blade Diameter	Catalog No.	Blade Diameter
COMBINATION 	All purpose blade for general use ripping or cross-cutting soft woods.	73863 73875 73881 73894 73899	6 $\frac{1}{4}$ " 7 $\frac{1}{4}$ " 8 $\frac{1}{4}$ " 10" 12"	16632 16491 16843	6 $\frac{1}{2}$ " 7 $\frac{1}{4}$ " 8"
CUT-OFF 	Specially designed for cross-cutting, giving smoother cuts than combination blade.	73865 73876 73883 73895 73900	6 $\frac{1}{4}$ " 7 $\frac{1}{4}$ " 8 $\frac{1}{4}$ " 10" 12"	16826 16844 16845	6 $\frac{1}{2}$ " 7 $\frac{1}{4}$ " 8"
MITRE 	Hollow ground planer blade recommended for interior finish and trim. Very smooth cutting.	73867 73877 73885 73896	6 $\frac{1}{4}$ " 7 $\frac{1}{4}$ " 8 $\frac{1}{4}$ " 10"	16827 16846 16847	6 $\frac{1}{2}$ " 7 $\frac{1}{4}$ " 8"
RIP 	Greater tooth set to minimize binding and to provide faster cutting speed.	73898 73901	10" 12"	16828 16848 16849	6 $\frac{1}{2}$ " 7 $\frac{1}{4}$ " 8"
FLOORING 	Recommended for old floors, lumber, etc., where nails, metal plaster lath, are to be cut through.	73873 73878 73886 73897	6 $\frac{1}{4}$ " 7 $\frac{1}{4}$ " 8 $\frac{1}{4}$ " 10"	16829 16850 16851	6 $\frac{1}{2}$ " 7 $\frac{1}{4}$ " 8"
CARBIDE TIPPED 	For production cutting of new lumber... fewer sharpenings needed. Also cuts asbestos cement panels.	22315 22313 22314	6" 7" 8"		
METAL CUTTING 	Hollow ground for cutting aluminum, copper, lead, plastics.	73874 73888	5 $\frac{7}{8}$ " 8 $\frac{1}{4}$ "		
FINE TOOTH 	Gives smoother cuts on softer materials such as wall board, thin plastics, etc.	73869 73879 73887	6 $\frac{1}{4}$ " 7 $\frac{1}{4}$ " 8 $\frac{1}{4}$ "		
FRICITION 	Metal cutting for flat or corrugated sheets of roofing, etc., hollow ground.	73871 73884	6 $\frac{1}{4}$ " 8 $\frac{1}{4}$ "		

UNIVERSAL... REINFORCED... FLEXIBLE... NON-BREAKABLE... CUT OFF WHEELS FOR POWER SAWS

	USE FOR CUTTING	CATALOG NUMBER	WHEEL SIZE
			6 $\frac{1}{4}$ " x $\frac{1}{6}$ "
	ALL METALS	25702 25704 25706 25708 25718 25720	7 $\frac{1}{4}$ " x $\frac{1}{6}$ " 8" x $\frac{1}{8}$ " 6 $\frac{1}{4}$ " x $\frac{3}{16}$ " 7 $\frac{1}{4}$ " x $\frac{3}{16}$ " 8" x $\frac{3}{16}$ "
	CONCRETE AND ALL CONCRETE PRODUCTS	25701 25703 25705 25707 25717 25719	6 $\frac{1}{4}$ " x $\frac{1}{6}$ " 7 $\frac{1}{4}$ " x $\frac{1}{8}$ " 8" x $\frac{1}{6}$ " 6 $\frac{1}{4}$ " x $\frac{3}{16}$ " 7 $\frac{1}{4}$ " x $\frac{3}{16}$ " 8" x $\frac{3}{16}$ "

SAW LUBRICANT

Catalog Number	Quantity
70065	.2 fl. oz. tube
73798	.8 fl. oz. tube
21382	.2 lb. can
75975	.8 lb. can



SAW CASE

No. 16852 for all CopperLine Saws.



THOR POWER TOOL COMPANY CHICAGO, ILLINOIS

Thor grinding wheels and wire brushes are manufactured to highest industrial standards to stand up under roughest portable power tool applications. Conform 100% to all safety codes and standards. Complete range of styles and sizes for portable and bench grinders. All items individually packaged and labelled for user convenience.

Bench and Straight

Grinder

ACCESSORIES



STRAIGHT GRINDING WHEELS

Cat. No.	Diam.	Dimensions		Maximum Spindle Speed R.P.M.	Type
		Width	Hole		
FOR PORTABLE GRINDERS					
72263	4"	3/4"	1/2"	6000	Vit
72286	5"	3/4"	1/2"	4500	Vit
72333	6"	1"	5/8"	4000	Vit
FOR BENCH GRINDERS					
72307	6"	1/2"	1/2"	3800	Vit-Med.
72843	6"	1/2"	1/2"	3800	Vit-Coarse
72315	6"	1/2"	1/2"	3800	Vit-Fine
72316	6"	3/4"	1/2"	3800	Vit-Med.
72844	6"	3/4"	1/2"	3800	Vit-Coarse
72324	6"	3/4"	1/2"	3800	Vit-Fine
72354	7"	1"	5/8"	3500	Vit-Med.
72362	7"	1"	5/8"	3500	Vit-Coarse
72363	7"	1"	5/8"	3500	Vit-Fine
72381	8"	1"	5/8"	4500	Bonded-Med.
72382	8"	1"	5/8"	4500	Bonded-Coarse
72385	8"	1"	5/8"	4500	Bonded-Fine
72404	10"	1"	3/4"	1900	Vit-Medium
72412	10"	1"	3/4"	1900	Vit-Coarse
72403	10"	1"	3/4"	1900	Vit-Fine

BONDED CUP GRINDING WHEELS



STRAIGHT CUP

FLARING CUP

All Cup Wheels shown have 5/8" x 11 threaded hole.

Cat. No.	Application	Wheel Diameter	Overall Width	Rim Width	Back Thkns.
STRAIGHT CUP					
72431	General Purpose	4"	2"	5/8"	3/4"
72458	General Purpose	6"	2"	1 1/8"	3/4"
FLARING CUP					
72423	General Purpose	4" x 3"*	1 3/4"	1"	5/8"
72467	General Purpose	6" x 4 1/4"**	2"	1"	5/8"

*Wheel diameter of flared wheels—first figure indicates large diameter second figure indicates small diameter.

CLOTH BUFFING WHEELS

No. 64419—6" diameter,
1/2" width, 1/2" hole

No. 64420—6" diameter,
1/2" width, 5/8" hole



WIRE BRUSHES

Wire Gauge Sizes: 30 ga.—.014" 33 ga.—.012" 36 ga.—.009"



ARBOR HOLE ADAPTOR TYPE
EACH WHEEL FURNISHED with one pair of Arbor Hole Adaptors. Specify arbor hole size required.

Catalog No.	Wire Gauge 30	Brush Diameter	BRUSH WIDTH		SIZE ARBOR		Approx. Shipping Weight
			Face	Hub	Max.	Min.	
CRIMPED WIRE—HEAVY DUTY							
72587	72593	4"	1 1/8"	7/8"	1"	1/4"	1 lb.
	72594	6"	1 1/2"	1 1/8"	2"	1/2"	2 lb.
25721	72595	6"	1 1/2"	1 1/8"	1/2"	5/8"	2 lb.
25722	72595	6"	1 1/2"	1 1/8"	5/8"	5/8"	2 lb.
24243	72596	7"	1 1/2"	1 1/8"	1/2"	1/2"	2 1/4 lb.
24244	72596	7"	1 1/2"	1 1/8"	5/8"	5/8"	2 1/4 lb.
72590	72596	8"	1 1/4"	1 1/4"	2"	1/2"	3 lb.

CRIMPED WIRE—STANDARD DUTY

Cat. No.	Wire Gauge 30	Brush Diameter	FOR 4" BRUSHES		FOR 6", 7" AND 8" BRUSHES		
			Face	Hub	6"	7"	8"
73061	73067	4"	3/4"	1/2"	1"	1/4"	3/4 lb.
	73068	6"	1"	5/8"	2"	1/2"	1 lb.
25380		6"	1"	5/8"	1/2"	5/8"	1 lb.
25381		6"	1"	5/8"	1/2"	5/8"	1 lb.
25723		7"	1"	5/8"	1/2"	1/2"	1 1/4 lb.
25724		7"	1"	5/8"	5/8"	5/8"	1 1/4 lb.
73064	73070	8"	1 1/8"	3/4"	2"	1/2"	1 1/4 lb.

INTERCHANGEABLE ARBOR HOLE ADAPTORS

Cat. No. (Pair)	Arbor Hole Size	FOR 4" BRUSHES		FOR 6", 7" AND 8" BRUSHES		Cat. No. (Pair)	Arbor Hole Size
		Cat. No. (Pair)	Arbor Hole Size	Cat. No. (Pair)	Arbor Hole Size		
72599	1/4"	72605	1/2"	72610	1 1/8"		
72600	3/8"	72606	5/8"	72611	1 1/4"		
72601	1/2"	72607	3/4"	72612	1 1/2"		
72602	5/8"	72608	7/8"	72613	1 3/4"		
72603	3/4"	72609	1"				
72604	1"						

SECTION TYPE WIRE BRUSHES CRIMPED WIRE

Catalog Number	Brush Diameter	Brush Width		Size Arbor Hole	Wire Gauge	Approx. Shpg. Wt.
		Face	Hub			
23177	4"	5/16"	3/8"	1/2"	33	.35 lb.
23210	6"	3/4"	5/8"	1/2"	33	.6 lb.
23211	6"	3/4"	5/8"	5/8"	33	.6 lb.



CUP WIRE BRUSHES SPIRAL TWIST WIRE

GENERAL PURPOSE CUP WIRE BRUSHES		Specifications listed below apply to both general purpose and heavy duty cup wire brushes				HEAVY DUTY CUP WIRE BRUSHES	
Cat. No.	Ship. Wt. lbs.	Approx. O.D.	Approx. I.D.	Arbor Hole	Wire Size	Cat. No.	Ship. Wt. lbs.
WITH PLAIN UNTHREADED ARBOR							
73073	1 1/4	4"	2"	5/8"	.020"	72632	2 1/2
73074	1 1/4	4"	2"	5/8"	.012"	72633	2 1/2
73075	3	6"	3 1/2"	5/8"	.020"	72634	4
73076	3	6"	3 1/2"	5/8"	.030"	72635	4
WITH THREADED ARBOR. 5/8" x 11 THREAD							
73077	1 1/4	4"	2"	5/8"-11	.020"	72636	2 1/2
73078	1 1/4	4"	2"	5/8"-11	.012"	72637	2 1/2
73079	3	6"	3 1/2"	5/8"-11	.020"	72638	4
73080	3	6"	3 1/2"	5/8"-11	.030"	72639	4



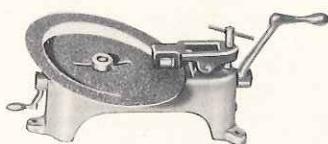
**Grinder-Sander
ACCESSORIES**

Thor offers a complete line of disc sander and disc grinder accessories, manufactured to highest standards for maximum service with portable electric tools. "Depressed center" wheels offer unequalled grinding efficiency, safety, long life. Complete line of mounted wheels and points for use in electric drills, small grinders.

SANDING DISC TRIMMER

No. 74368 cuts larger discs (up to 9") down to smaller sizes (to 4" minimum). Salvages used discs for service with smaller pads.

No. 21260 Replacement cutter blade.



SANDER BACKING PADS

No. 74139.....7" rubber backing pad

No. 74140.....9" rubber backing pad



KOOLBACK PADS

No. 21261.....7" flexible pad

No. 21262.....7" medium pad

No. 21263.....7" rigid pad

No. 21264.....9" flexible pad

No. 21265.....9" medium pad

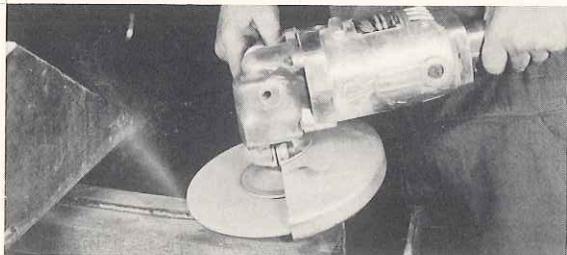
No. 21266.....9" rigid pad



SANDING DISC CLAMP NUT

No. 59572 for all Thor 7" and 9" rubber and Koolback pads.

No. 60277 spanner wrench for no. 59572 clamp nut.



**DEPRESSED CENTER
GRINDING WHEELS**



7/8" HOLE

Made of laminated sheets of cotton fibre filled with abrasive grain. See Guard Kits below.

Size of Grain	7" Diameter Cat. No.	9" Diameter Cat. No.	Thickness, Inches
---------------	----------------------	----------------------	-------------------

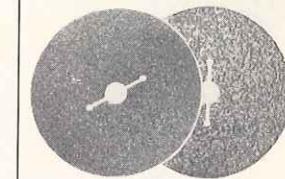
For use at 6000 rpm maximum speed

16	22624	22639	1/8
24	22625	22640	
36	22626	22641	
50	22627	22642	
80	22628	22643	
16	22629	22644	3/16
24	22630	22645	
36	22631	22646	
50	22632	22647	
80	22633	22648	
16	22634	22649	1/4
24	22635	22650	
36	22636	22651	
50	22637	22652	
80	22638	22653	

For use at 8000 rpm maximum speed

24	25375	1/8
36	25376	
50	25377	
80	25378	

SANDING DISCS



7/8" HOLE

CLOSED GRAIN

CATALOG NUMBER		
	7" Disc	9" Disc
16	72775	72797
24	72776	72798
30	72777	72799
36	72778	72800
50	72779	72801
60	72780	72802
80	72781	72803
100	72782	72804
120	72783	72805
150	72784	72806
180	72785	72807

OPEN GRAIN

*16	72786	72808
24	72787	72809
30	72788	72810
36	72789	72811

*No. 16 Discs packed 10 to a box.
All other Discs packed 25 to a box.

DEPRESSED CENTER CONVERSION KITS

Kits convert cup-wheel grinders to "depressed-center" disc-wheel grinders—with open guard, threaded backing plate, spacing washers, wheel nut and wrench.

No. 82812.....7" conversion kit

No. 82813.....9" conversion kit



GUARD

BACKING PLATE

NUT

WASHERS

WRENCH

MOUNTED WHEELS AND POINTS



Cat. No.	72648	71723	71722	72649	72650	72651	72652	72653	72654	72655
Widest Diameter Abrasive Length	3/4" 2 1/2"	7/8" 2 3/4"	1" 1 1/4"	1 1/4" 1 1/4"	3/4" 1 1/8"	3/4" 1 1/8"	1 3/16" 1 3/4"	1 1/16" 1 1/4"	1 1/16" 1 1/8"	1 1/16" 7/8"

Cat. No.	72656	71724	72657	72658	72659	71725	72660	71726	72662	72663
Widest Diameter Abrasive Length	1/4" 1 1/16"	1" 1"	3/4" 5/8"	3/4" 1"	1/4" 3/4"	1" 1"	5/8" 5/8"	1 3/8" 1"	1" 5/8"	1" 1/2"

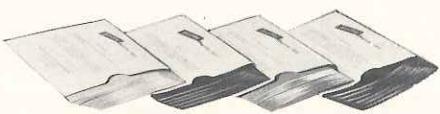
Cat. No.	72664	72665	72661	72666	72667	72668
Widest Diameter Abrasive Length	1 1/2" 3/8"	1" 3/8"	1 1/8" 3/8"	1 1/4" 1/4"	1" 1"	3/4" 3/4"

NOTE: Mandrels on all these mounted wheels and points have 1/4" chucking diameter and 2" length (projection from face of abrasive).



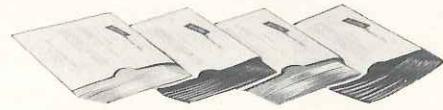
Thor abrasive sheets and belts are engineered especially for portable power tool service combining maximum cutting efficiency with long abrasive life. Backing pads are manufactured from highest quality industrial rubber, life-time vulcanized to metal parts. Lambswool bonnets are full fashioned from selected skins for maximum service.

**Sander-Polisher
ACCESSORIES**

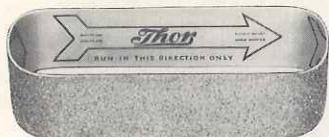


No. C45X9 SANDER ACCESSORIES

No. 17003—18 sheets 1/0 Aluminum Oxide 80-grit (open face) 4½" x 11"
No. 17004—18 sheets 3/0 Aluminum Oxide 120-grit (open face) 4½" x 11"
No. 17005—18 sheets 6/0 Aluminum Oxide 220-grit (open face) 4½" x 11"
No. 17006—18 sheets 9/0 Silicon Carbide 320-grit (waterproof) 4½" x 11"



No. 17007—18 sheets 12/0 Silicon Carbide 320-grit (waterproof) 4½" x 11"
No. 17008—18 sheets assorted Aluminum Oxide (open face) covers 4½" x 11"
No. 16874—Contour Plate assembly neoprene pad ¾" thick
No. 16899—Lambs Wool polishing pad 4½" x 11"



BLOWER CONNECTION AND DUST BAG ASSEMBLY
Catalog No. 78604

CONVERSION UNIT
Catalog No. 79545 converts T45 Sander to T45V (vacuum dust collector) Sander.

SANDING BELTS

FOR WOOD		FOR METAL		FOR STONE	
Grade	Cat. No.	Grade	Cat. No.	Grade	Cat. No.
3	21192	24	21201	24	21214
2½	21193	30	21202	30	21215
2	21194	36	21203	36	21216
1½	21195	40	21204	40	21217
1	21196	50	21205	50	21218
1/2	21197	60	21206	60	21219
1/0	21198	80	21207	80	21220
2/0	21199	100	21208	100	21221
3/0	21200	120	21209	120	21222
		150	21210	150	21223
		180	21211	180	21224
		220	21212	220	21225
		320	21213	320	21226
FOR REMOVING VARNISH					
3	21227	2	21229	1	21231
2½	21228	1½	21230	½	21232
FABRIC BELT FOR POLISHING					
Catalog No. 21233 grade 926					

SPECIAL RECOMMENDATIONS FOR STONE BELTS

MARBLE—Use Grade No. 40 for leveling off rough surfaces, shaping, fitting; No. 60 for removing scratches left by No. 40; Nos. 150, 220 and 320 for honing.

CAST STONE—Use Nos. 24 and 40 for grinding and leveling off surfaces; No. 60 for smoothing; No. 150 for honing.

NATURAL STONE—(including Indiana limestone). Use Nos. 24 and 40 for grinding, cutting bevels, leveling off surfaces; No. 60 for removing scratches, smoothing down.



PNEUMATIC PAD

POLISHER ACCESSORIES

Catalog No. 66720, recommended for use with the New Thor EL-91 Polisher for fast polishing . . . won't burn or raise paint . . . does not leave rings or whirls . . . sucks up clouds of scum . . . an unbeatable combination for production polishing.



RUBBER BACKING PAD

Catalog No. 22483—Tapered back Flexible Pad (for use with or without felt pad).

FELT CUSHION PAD
Catalog No. 61111

BACKING PAD NUTS Catalog

No. 71282 for use with No. 22483 Flexible Pad and No. 61112 Lambswool Pad combined.

Catalog No. 75048 for use with No. 22483 backing pad and No. 61111 Felt Cushion combined.

SPANNER WRENCH Catalog No. 60277 fits both backing pad nuts.

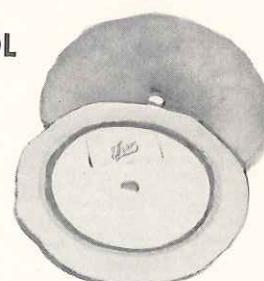
LAMBSWOOL BONNETS
(drawstring type)



Catalog No. 74329 for use with No. 66720 Pneumatic Pad or with No. 22483 Flexible Pad and No. 61111 Felt Pad combined.

Catalog No. 81738 for use with Flexible Pad No. 22483 only.

LAMBSWOOL PAD



Catalog No. 61112 for use with Flexible Pad No. 22483 only or for use with Flexible Pad No. 22483 and Felt Cushion Pad No. 61111 combined.

Valve Grinder ACCESSORIES

Complete, modern line of valve seating grinding accessories engineered for top performance with Thor valve seat grinders on all types of internal combustion engines. Recommendations for specific engines are contained in Thor Valve Seat Grinding Manual No. 9984 copy available upon request.



**HEAVY DUTY
WHEEL DRESSER**
Catalog No. 74241
takes up to 3 1/2" wheel.

PLAIN BEARING WHEEL HOLDER



Catalog No. 25582 1/2" straight hexagon driving socket, 1 1/16" x 16 wheel thread.

ROLLER BEARING WHEEL HOLDER



Catalog No. 25584 1/2" straight hexagon driving socket, 1 1/16" x 16 wheel thread.



SHORT ROLLER BEARING WHEEL HOLDER

Catalog No. 25583 1/2" straight hexagon driving socket, 1 1/16" x 16 wheel thread.

ADAPTOR BUSHING



Catalog No. 25588
adapts Thor 1 1/16" x 16
thread seat grinding
wheels to 5/16" x 16
thread.

HEX BALL ADAPTOR



Catalog No. 74244
threads into Thor Valve
Seat Grinder Spindle,
permits use of other
type wheel holders.



PILOT WRENCH

Catalog No. 80984 for
use with 3/8" stem pilots
using 25582, 25583, 25584
wheel holders.

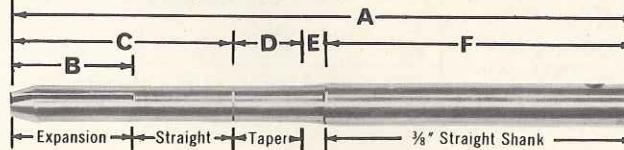
VALVE SEAT GRINDING WHEELS-11/16" x 16 Threaded Hole

Diam- eter	45°			30°			15° Narrow- ing	
	Roughing		Finishing	Roughing		Finishing		
	For Soft Seats	For Hard Seats		For Soft Seats	For Hard Seats			
1 1/8"		*22017	*21427					
1 1/4"	*21430	*22018	*21429	*21432	*22023	*21431	*21433	
1 5/16"		*22019	*21434			*21436		
1 3/8"	*21440	*22020	*21439	*21442	*22025	*21441	*21443	
1 1/2"	74168	21234	74159	74169	21235	74163	74224	
1 5/16"	74165	21238	74160	74175	21239	74174	74225	
1 3/4"	74166	21242	74161	74180	21243	74164	74226	
1 7/8"	74185	21246	74162	74187	21247	74186	74227	
2"	74249	21250	74248	74251	21251	74250	21302	
2 1/8"	74197	21254	74196	74199	21255	74198	21304	
2 1/4"	74205	21258	74204	74207	21259	74206	21306	
2 3/8"	74213	21326	74212	74215	21327	74214	21308	
2 1/2"	74221	21330	74220	74223	21331	74222	21310	
2 5/8"	75980	21334	75981	75982	21335	75983	21311	
2 3/4"	75984	21336	75985	75986	21337	75987	21312	
2 7/8"	75990	21340	75991	75992	21341	75993	21314	
3"	75994	21342	75995	75996	21343	75997	21315	
3 1/2"	76010	21350	76011	76012		76013		

*1 1/2" Length, all others 3/4" Length.

NOTE: 15° Wheels for International Trucks: 2 3/8" 15° Roughing Wheel, Cat. No. 22035
2 3/8" 15° Finishing Wheel, Cat. No. 22036

EXPANDING PILOTS



Catalog No.	Pilot Size	A	B	C	D	E	F
25589	1/4	4 5/16	3/4	1 1/8	7/8		2 3/8
25590	1/4	3 3/4	3/4	1	7/8		2
25591	9/32	4 9/16	7/8	1 1/8	7/8		2 3/8
25592	9/32	3 3/4	3/4	1	7/8		2
25593	5/16	5 1/4	7/8	1 1/4	3/4		2 3/4
25594	5/16 + .015	5 1/4	7/8	1 1/4	3/4		2 3/4
25595	5/16	4 9/16	15/16	1 1/4	7/8		2 3/8
25596	5/16	6 1/4	7/8	1 1/4	3/4		3 1/4
25597	11/32	5 1/4	7/8	1 1/4	3/4		2 3/4
25598	11/32	4 1/2	7/8	1 1/4	7/8		2 3/8
25599	11/32	6 1/4	7/8	1 1/4	3/4		3 1/4
25600	11/32 + .015	5 1/4	7/8	1 1/4	3/4		2 3/4
25601	3/8	6	7/8	2 1/4	3/4		3
25602	3/8 + .015	5 3/4	7/8	2	3/4		3
25603	3/8	4 1/2	7/8	1 1/4	7/8		2 3/8
25604	3/8	7 1/4	7/8	2 1/4	3/4		3 1/4
25605	.397	5 7/8	7/8	2 1/4	5/8		3 1/8
25606	13/32	6	7/8	2 1/4	3/4		3
25607	13/32	7 1/4	7/8	2 1/4	3/4		3 1/4
25608	7/16	6 1/4	1	2 1/2	3/4		3
25609	7/16	7 1/2	1	2 1/2	3/4		3 1/4
25610	7/16	8 1/2	1	2 1/2	1 7/16	1 5/16	3 1/4
25611	7/16	5 1/4	7/8	1 1/8	7/8		3
25612	1/2	6 1/4	1	2 1/2	3/4		3
25613	1/2	8	1	2 1/2	1 7/16	13/16	3 1/4
25614	1/2	7 1/4	1	2 1/2	1 5/16		3 5/16
25615	17/32	6 5/8	1 1/8	2 1/2	3/4		3 1/2
25616	5/16	6 1/4	1 1/8	2 1/2	3/4		3
25617	5/16	8	1 1/8	2 1/2	1 7/16	13/16	3 1/4
25618	19/32	5 1/4	15/16	1	1/2	3/4	3
25619	5/16	6 1/4	1 1/8	2 1/2	3/4		3
25620	11/16	6 1/4	1 1/8	2 1/2	3/4		3
25621	11/16	8 3/8	1 1/8	2 1/2	1 1/8	1	3 1/2
25622	9/16	6 1/4	1 1/8	2 1/2	1		3 1/4
25623	11/32	4 3/4	13/16	3/4	1/2		3 5/16
25624							
25625							

.850° Special Pilot for Ford V-8 60.

1 1/2" x 1 Special Pilot for Ford V-8 for use when lifters are removed from engine.



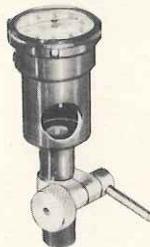
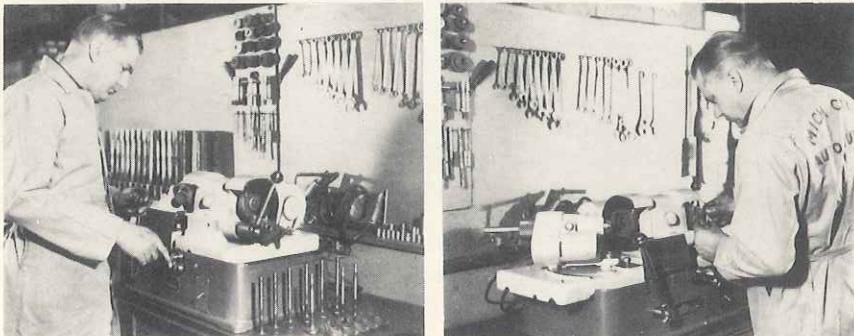
CHICAGO, ILLINOIS

For maximum service from your Thor Valve Refacer, order Thor valve refacer wheels and coolant, engineered to match advanced features of Thor valve refacing equipment. Grinding wheels are safety code approved. Thor valve guide cleaners are available in two styles, both with $\frac{1}{4}$ " shanks for operation in $\frac{1}{4}$ " electric drills.

Valve Grinder ACCESSORIES

VALVE REFACER GRINDING WHEELS

Catalog No.	Use With Thor Valve Refacers	Description	Size
85767	Nos. 300 and 299	General Purpose Offset	5" x 1" x $\frac{5}{8}$ " hole
73534	Nos. 100 and 99	General Purpose Offset	4" x 1" x $\frac{5}{8}$ " hole
74247	Nos. 100 and 99	Double Recessed 90° Wheel	4" x $\frac{3}{4}$ " x $\frac{5}{8}$ " hole
73533	Nos. 300, 299, 100 and 99	Butt Grinding Cup Wheel	4" x 1" x $\frac{5}{8}$ " hole
88507	Nos. 300 and 299	Stellite Offset Wheel	5" x 1" x $\frac{5}{8}$ " hole
73535	Nos. 100 and 99	Stellite Offset Wheel	4" x 1" x $\frac{5}{8}$ " hole



DIAL INDICATOR GAUGES

Catalog No. 82457 heavy duty, mounts on Thor pilots, adjustable for seats from $1\frac{1}{8}$ " to $3\frac{1}{2}$ ". Dial graduated in .001".



WHEEL DRESSING NIBS

Catalog No. 74448 for Thor Valve Refacers.
Catalog No. 74327 for no. 74241 Valve Seat Wheel Dresser.

THOR GRINDING OIL



Catalog No. 24923 one gallon can (not soluble).

THOR COOLANT



Catalog No. 20316 one pint can (makes 6 gallons).
Catalog No. 20317 one gallon can (makes 50 gallons).



VALVE REFACER CABINET

Catalog No. 74328, heavy gauge steel construction with masonite table surface, swivel casters. 36" long x 20" wide x 33" high.

VALVE REFACER COVER

Catalog No. 74666, sturdy pyroxolin material, waterproof, cut to cover entire 299 or 300 Thor Valve Refacer.

VALVE GUIDE CLEANERS

REAMER TYPE

Size	Number
$\frac{5}{32}$ "	74228
$\frac{5}{16}$ "	74229
$1\frac{1}{32}$ "	74230
$\frac{3}{8}$ "	74231
$1\frac{1}{32}$ "	74232
$\frac{7}{16}$ "	74233
$1\frac{5}{32}$ "	74234
$\frac{1}{2}$ "	74235
$\frac{9}{16}$ "	74236
.592"**	74237
.850"**	74240
$1\frac{1}{32}$ "†	74239

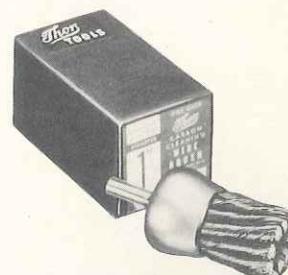
*Ford A&B

**V8-60 †V8-85

BRUSH TYPE

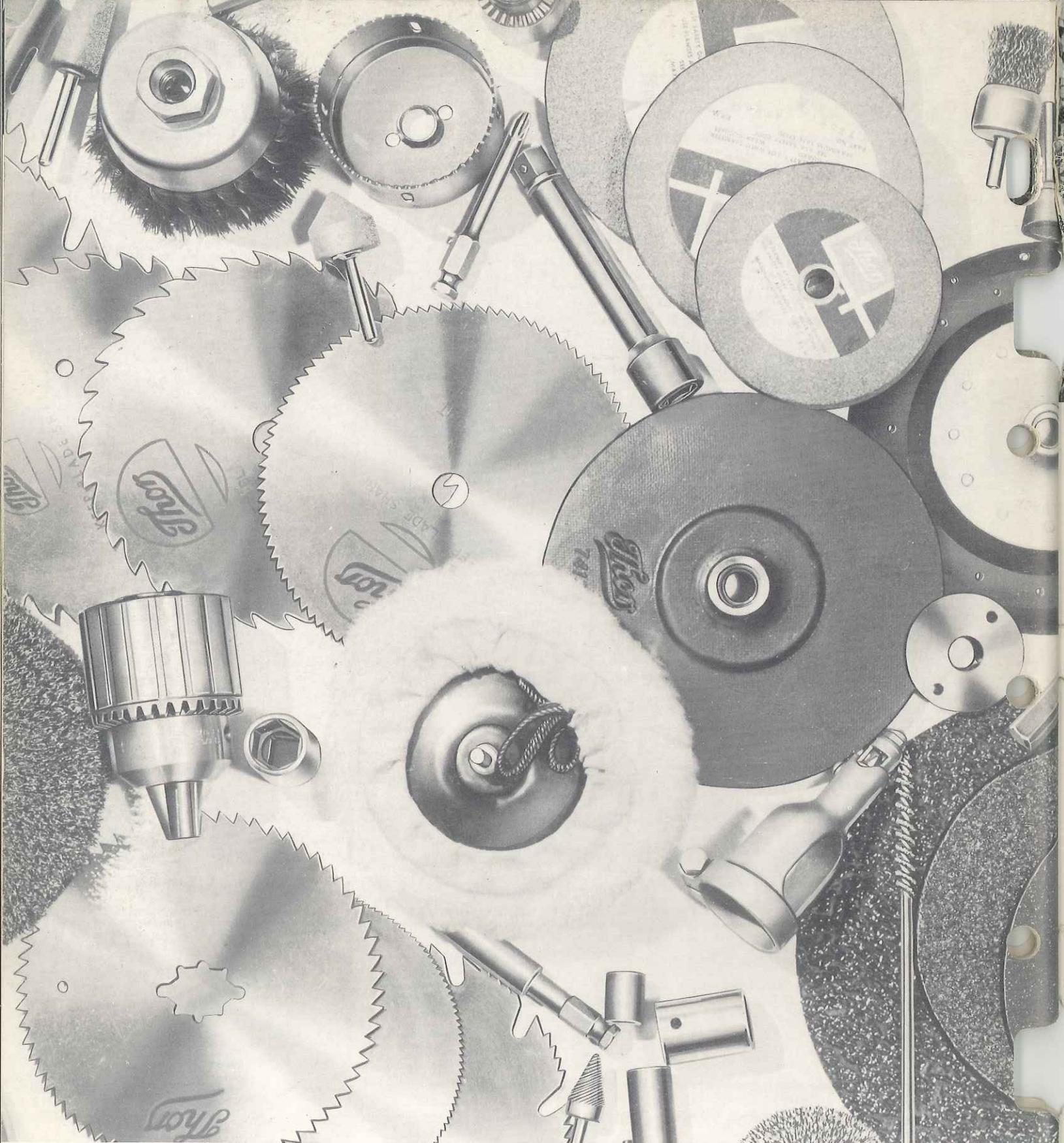
Size	Number
$\frac{5}{16}$ "	73081
$1\frac{1}{32}$ "	73082
$\frac{3}{8}$ "	73083
$1\frac{1}{32}$ "	73084
$\frac{7}{16}$ "	73085
$\frac{1}{2}$ "	73086
$\frac{9}{16}$ "	73087
$\frac{5}{8}$ "	73088
$1\frac{1}{32}$ "	73089
$1\frac{1}{32}$ "*	73090

*V8-85



CARBON CLEANING BRUSHES

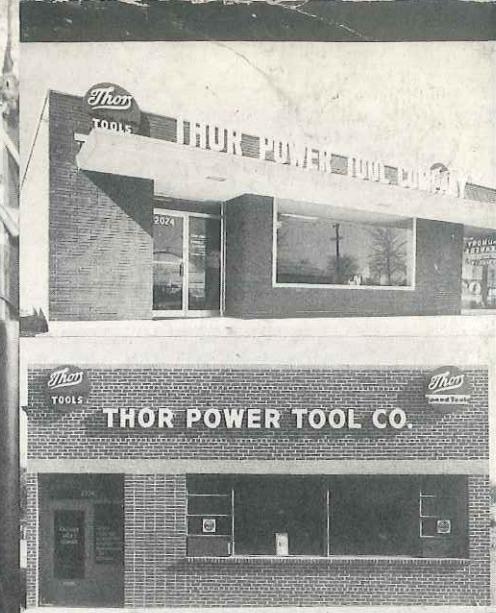
SEE COMPLETE LISTING
ON PAGE 4a



Sold
By

THOR POWER TOOL COMPANY • CHICAGO 1, ILLINOIS

Printed in U.S.A.



FACTORY BRANCH REPAIR SERVICE

For Thor tool users and distributors, Thor operates completely equipped factory branches in principal cities . . . manned by factory trained tool engineers . . . well stocked with genuine Thor parts, to give you immediate repair service on all Thor power tools. These factory branches bring faster repair service—plus the added advantages of repair economy and new tool satisfaction . . . *every tool repaired carries the same guarantee as a new tool!* Let the men who built your Thor tool service it! Be sure worn parts are replaced with genuine Thor parts.

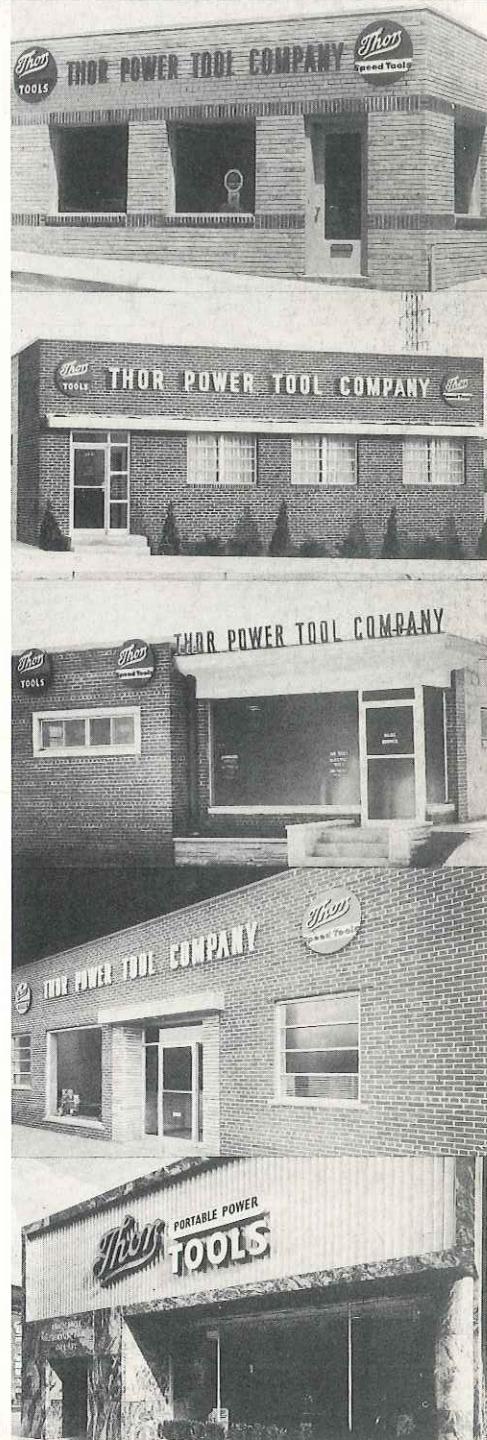
CATALOG SHEETS, MANUALS, PARTS LISTS

For the conscientious tool buyer who desires additional information not shown in the catalog, or who wishes to replace lost instruction manuals or parts lists, extra catalog sheets, manuals and parts lists are available at all Thor branches.

Guarantee

All Thor tools and parts are guaranteed against any defect in material or workmanship. Thor will replace parts which, upon examination at Thor factory service branch (or factory), indicate that they are defective. The complete tool or part must be returned to a Thor factory branch (or Thor factory) transportation charges prepaid. No replacement will be made if repairs to the Tool or Part have been attempted by anyone excepting the above service stations.

THOR POWER TOOL COMPANY
CHICAGO, ILLINOIS



THOR POWER TOOL COMPANY

FACTORIES: AURORA, ILLINOIS • CHICAGO, ILLINOIS • CINCINNATI, OHIO
LOS ANGELES, CALIFORNIA • TYNEMOUTH, ENGLAND

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FARM AND RANCH DIVISION—Marengo, Illinois

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Cable Address: THORTOOLS

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40 Broadway, Westminster S.W. 1, London

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